		DEPARTMENT	ATE OF UTAH OF NATURAL RES F OIL, GAS AND N				FOR	
APPLI	CATION FOR F	PERMIT TO DRILL				1. WELL NAME and Greater N	NUMBER Ionument Butte G-1	8-9-17
2. TYPE OF WORK DRILL NEW WELL	REENTER P&A	WELL DEEPE	N WELL			3. FIELD OR WILDO	CAT MONUMENT BUTTE	
4. TYPE OF WELL Oil We	ll Coalbed	d Methane Well: NO				5. UNIT or COMMU	NITIZATION AGRE	EMENT NAME
6. NAME OF OPERATOR	WFIELD PRODUCT	FION COMPANY				7. OPERATOR PHO	NE 435 646-4825	
8. ADDRESS OF OPERATOR	t 3 Box 3630 , My	ton, UT, 84052				9. OPERATOR E-MA	IL rozier@newfield.con	1
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-72106		11. MINERAL OWNE FEDERAL (a) INDI	RSHIP IAN STATE (FEE(Э (12. SURFACE OWNI	ERSHIP DIAN STATE	FEE
13. NAME OF SURFACE OWNER (if box 12	= 'fee')					14. SURFACE OWN	ER PHONE (if box	12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box	12 = 'fee')					16. SURFACE OWN	ER E-MAIL (if box	12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COM MULTIPLE FORMATION YES (Submit Co			_	19. SLANT VERTICAL DIF	RECTIONAL 📵 H	ORIZONTAL 🗍
20. LOCATION OF WELL	FOO	TAGES	QTR-QTR	SECTI	ON	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1947 FN	L 693 FWL	SWNW	18		9.0 S	17.0 E	S
Top of Uppermost Producing Zone	1270 FNL	_ 1300 FWL	NWNW	18		9.0 S	17.0 E	S
At Total Depth	984 FNL	1588 FWL	NENW	18		9.0 S	17.0 E	S
21. COUNTY DUCHESNE		22. DISTANCE TO NE	EAREST LEASE LIN 1052	IE (Feet)		23. NUMBER OF AC	RES IN DRILLING 20	UNIT
		25. DISTANCE TO NE (Applied For Drilling		AME POOL		26. PROPOSED DEF	P TH : 6168 TVD: 6168	3
27. ELEVATION - GROUND LEVEL 5467		28. BOND NUMBER	WYB000493			29. SOURCE OF DR WATER RIGHTS AP		IF APPLICABLE
	<u> </u>	AT	TACHMENTS					
VERIFY THE FOLLOWING	ARE ATTACHE	D IN ACCORDANG	CE WITH THE U	TAH OIL /	AND G	GAS CONSERVATI	ON GENERAL RI	ULES
WELL PLAT OR MAP PREPARED BY	LICENSED SURV	EYOR OR ENGINEER	сом	IPLETE DRI	LLING	PLAN		
AFFIDAVIT OF STATUS OF SURFACE	OWNER AGREE	MENT (IF FEE SURF	ACE) FOR	M 5. IF OPE	RATO	R IS OTHER THAN T	HE LEASE OWNER	
DIRECTIONAL SURVEY PLAN (IF DI	RECTIONALLY O	R HORIZONTALLY	г торо	OGRAPHIC/	AL MAF	•		
NAME Mandie Crozier		TITLE Regulatory T	ech		PHON	NE 435 646-4825		
SIGNATURE		DATE 11/24/2010			EMAI	L mcrozier@newfield.	com	
API NUMBER ASSIGNED 43013504990000		APPROVAL			B	way ill		
					Pe	ermit Manager		

API Well No: 43013504990000 Received: 11/24/2010

	Prop	osed Hole, Casing, a	nd Cement		
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)	
Prod	7.875	5.5	0	6168	
Pipe	Grade	Length	Weight		
	Grade J-55 LT&C	6168	15.5		

API Well No: 43013504990000 Received: 11/24/2010

	Proj	osed Hole, Casing,	and Cement			
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	300		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	300	24.0		П	Γ

NEWFIELD PRODUCTION COMPANY GREATER MONUMENT BUTTE G-18-9-17 AT SURFACE: (LOT #2) SW/NW SECTION 18, T9S, R17E DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' -	1390'
Green River		1390'
Wasatch		5930'
Proposed TD		6168'

3. <u>ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:</u>

Green River Formation (Oil) 1390' – 5930'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval Date Sampled Flow Rate Temperature Hardness pН Water Classification (State of Utah) Dissolved Calcium (Ca) (mg/l) Dissolved Iron (Fe) (ug/l) Dissolved Sodium (Na) (mg/l) Dissolved Magnesium (Mg) (mg/l) Dissolved Carbonate (CO₃) (mg/l) Dissolved Bicarbonate (NaHCO₃) (mg/l) Dissolved Chloride (Cl) (mg/l) Dissolved Sulfate (SO₄) (mg/l) Dissolved Total Solids (TDS) (mg/l)

4. PROPOSED CASING PROGRAM

a. Casing Design: Greater Monument Butte G-18-9-17

Size	Interval		Weight	Grade	Coupling	Design Factors		
3128	Top Bottom Velgitt State Soupling		Coupling	Burst	Collapse	Tension		
Surface casing	01	2001	24.0	J-55	STC	2,950	1,370	244,000
8-5/8"	0'	300'	24.0	J-55	310	17,53	14.35	33.89
Prod casing	-	0.400	45.5	1.55	1.70	4,810	4,040	217,000
5-1/2"	0'	6,168'	15.5	J-55	LTC	2.45	2.06	2.27

Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg
Pore pressure at surface casing shoe = 8.33 ppg
Pore pressure at prod casing shoe = 8.33 ppg
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

b. Cementing Design: Greater Monument Butte G-18-9-17

Job	Fill	Description	Sacks ft ³	OH Excess*	Weight (ppg)	Yield (ft³/sk)
Curfage agains	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
Surface casing	300	Class G W/ 2% CaCl	161	30 /0	13.0	E#17
Prod casing	4,168'	Prem Lite II w/ 10% gel + 3%	288	30%	11.0	3.26
Lead	4,100	KCI	939	30 %	11,0	5.20
Prod casing	2,000'	50/50 Poz w/ 2% gel + 3%	363	30%	14.3	1.24
Tail	2,000	KCI	451	30 / 0	14.5	1,24

- *Actual volume pumped will be 15% over the caliper log
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to Exhibit C for a diagram of BOP equipment that will be used on this well.

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

From surface to ±350 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will visually monitor pit levels and flow from the well during drilling operations.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. <u>TESTING, LOGGING AND CORING PROGRAMS</u>:

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

It is anticipated that the drilling operations will commence the first quarter of 2011, and take approximately seven (7) days from spud to rig release.

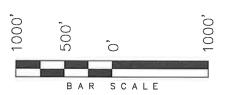
T9S, R17E, S.L.B.&M. N89°52'E - 78.57 (G.L.O.) N88*51'21"E - 2632.23' (Meas.) N88'51'57"E - 2532.32' (Meas.) 7/8 Rebar 1910 Brass Cap Brass Cap (Meas. Bottom of Hole Lot 1 1588 Center 2640. 1350' of Pattern Top of W.,01,95.00N Hole 693 *N01'11'* .L.o.) (G.L.O.) 1910 Brass Cap DRILLING WINDOW NORTH 1910 Brass Cap (Meas.) WELL LOCATION: Lot 3 G-18-9-17 2640.47" ELEV. EXIST. GRADED GROUND = 5467' NO1.01,24"W W.75,35,00V Lot 4 1910 Proportioned Brass Cap Not Set N88°50'41"E - 2634.72' (Meas.) N88°50'44"E - 2546.32' (Meas.) N89*51'E - 78.66 (G.L.O.) = SECTION CORNERS LOCATED G-18-9-17 BASIS OF ELEV; Elevations are base on (Surface Location) NAD 83 LOCATION: an N.G.S. OPUS Correction. $LATITUDE = 40^{\circ} 01' 57.77"$ LAT. 40°04'09.56" LONG. 110°00'43.28" LONGITUDE = 110° 03' 21.32"

(Tristate Aluminum Cap) Elev. 5281.57'

NEWFIELD EXPLORATION COMPANY

WELL LOCATION, G-18-9-17, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 (LOT 2) OF SECTION 18, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, G-18-9-17, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 18, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



NOTES:

- 1. Well footages are measured at right angles to the Section Lines.
- 2. Bearings are based on Global Positioning Satellite observations.

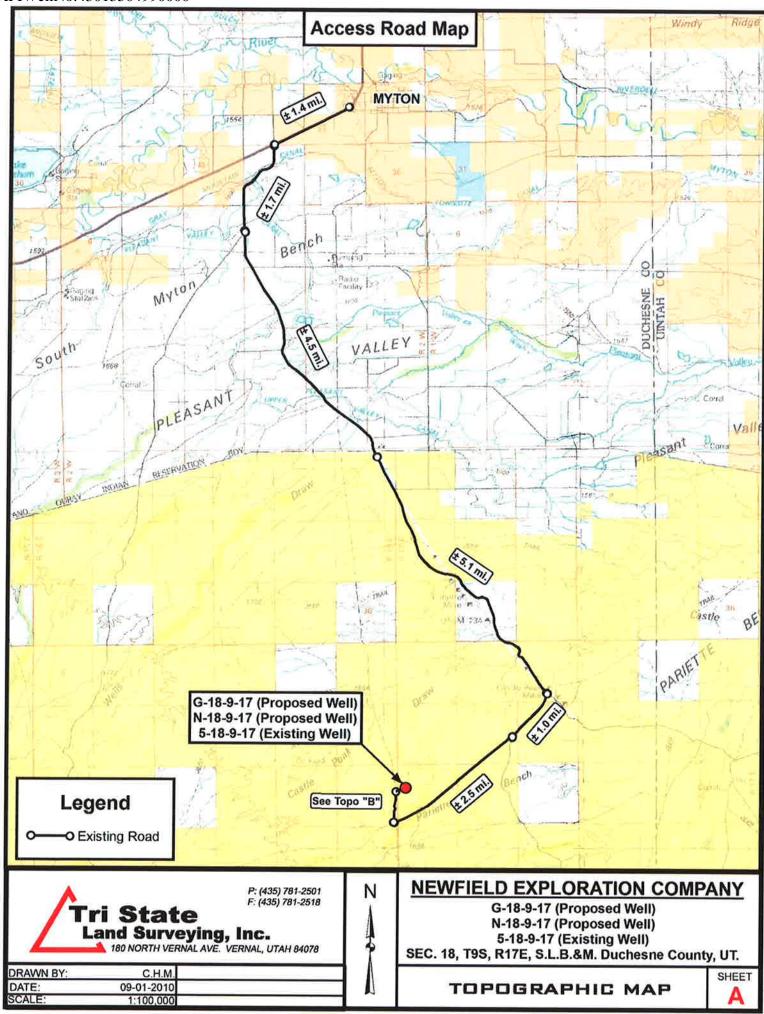
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD OF ACTUAL SURVEYS MADE BY ME OR UNDER WY SUPPRESION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE WAS BEING. 189377

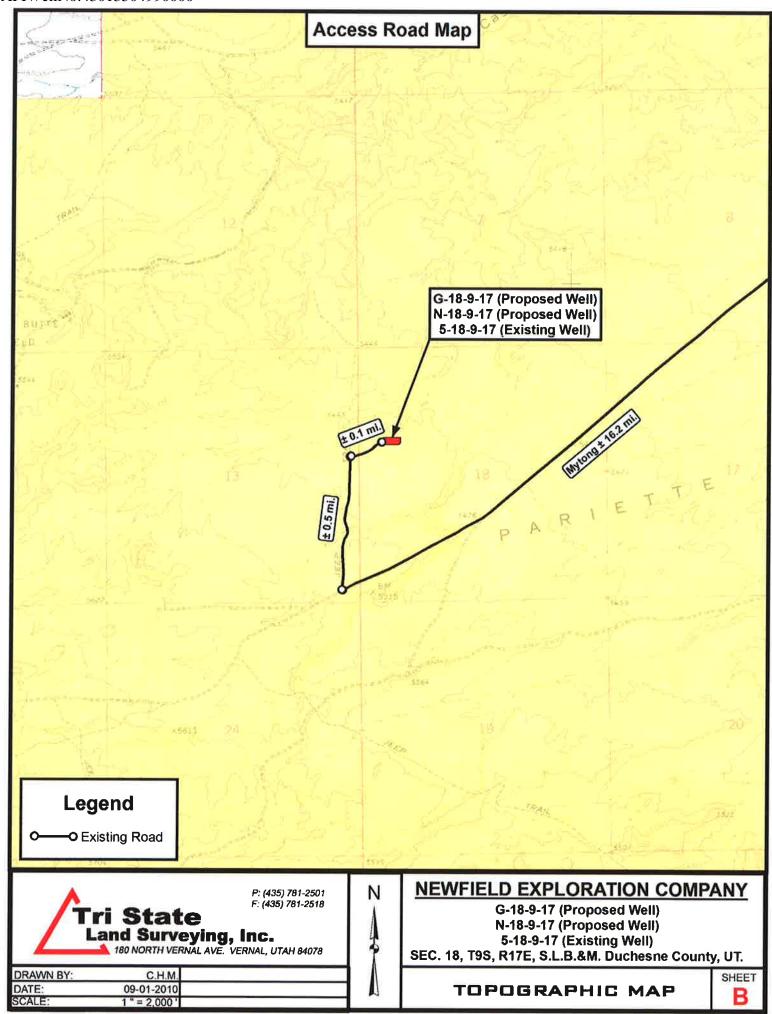


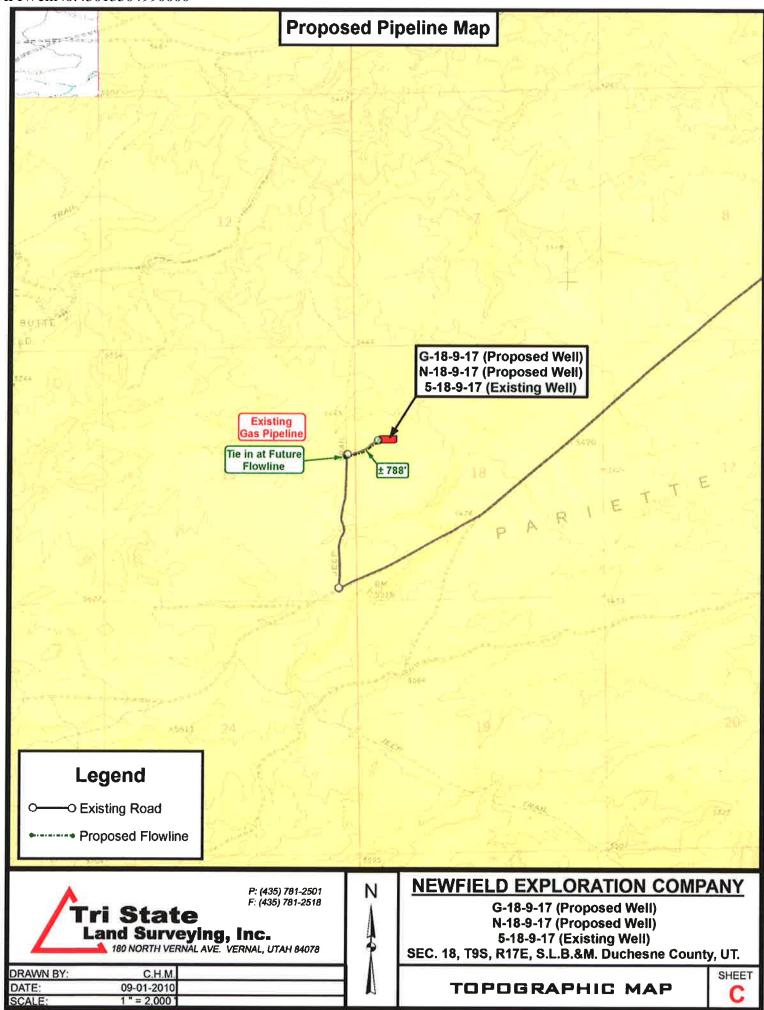
TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501

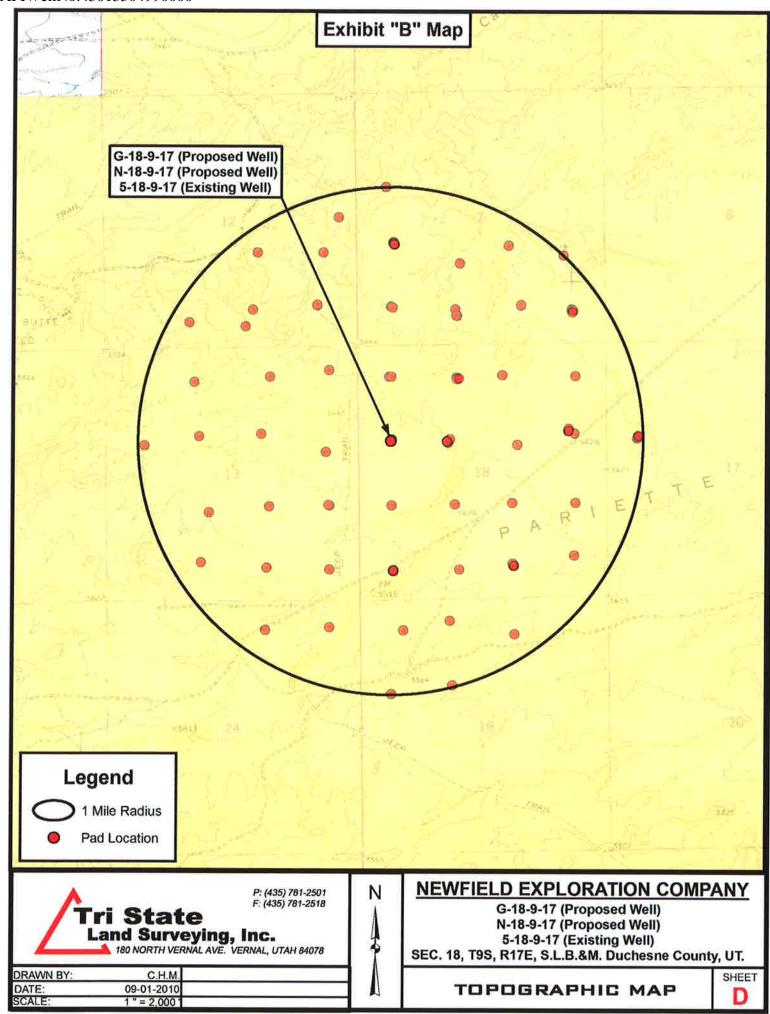
DATE SURVEYED: 08-11-10	SURVEYED BY: D.G.
DATE DRAWN: 09-10-10	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'







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NEWFIELD EXPLORATION

USGS Myton SW (UT) SECTION 18 T9S R17E G-18-9-17

Wellbore #1

Plan: Design #1

Standard Planning Report

07 September, 2010





HATHAWAY BURNHAM

Planning Report



Database: Company: Project: Site:

EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT) **SECTION 18 T9S R17E**

Well: G-18-9-17 Wellbore: Wellbore #1 Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well G-18-9-17

G-18-9-17 @ 5480.0ft (Original Well Elev) G-18-9-17 @ 5480.0ft (Original Well Elev)

Minimum Curvature

USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA **Project**

Map System: Geo Datum:

Map Zone:

US State Plane 1983

North American Datum 1983

Utah Central Zone

System Datum:

Mean Sea Level

Site SECTION 18 T9S R17E

Site Position:

From:

0.0 ft

Northing: Easting:

7,183,900.00 ft

Latitude: Longitude: 40° 1' 56.921 N

Position Uncertainty:

Slot Radius:

2,049,800.00ft

Grid Convergence:

110° 2' 16.332 W

0.94°

Well G-18-9-17, SHL LAT: 40° 01' 57.92, LONG: -110° 03' 21.12

Well Position

+N/-S +E/-W

19.2 ft -5,040.1 ft Northing: Easting:

7.183.919.21 ft 2,044,759.94 ft Latitude: Longitude:

40° 1' 57.920 N 110° 3' 21.120 W

Position Uncertainty

0.0 ft

Wellhead Elevation:

5.480.0 ft

Ground Level:

5,468.0 ft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) IGRF2010 2010/09/07 11.41 65.81 52,341

Design

Design #1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD)

+N/-S (ft)

+E/-W (ft)

Direction (°)

(ft) 0.0

0.0

0.0

41.86

easured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,603.5	15.05	41.86	1,592.0	97.6	87.5	1.50	1.50	0.00	41.86	
4,821.9	15.05	41.86	4,700.0	720.2	645.3	0.00	0.00	0.00	0.00	G-18-9-17 TGT
6,168.1	15.05	41.86	6,000.0	980.5	878.6	0.00	0.00	0.00	0.00	



HATHAWAY BURNHAM

Planning Report



Database: Company: Project: Site:

Wellbore:

Well:

EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT)

SECTION 18 T9S R17E G-18-9-17

G-18-9-17 Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well G-18-9-17

G-18-9-17 @ 5480.0ft (Original Well Elev) G-18-9-17 @ 5480.0ft (Original Well Elev)

Grid

Minimum Curvature

elibore: esign:	Design #1								
lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	41,86	700.0	1.0	0.9	1.3	1.50	1.50	0.00
800.0	3.00	41.86	799.9	3.9	3.5	5.2	1.50	1.50	0.00
900.0	4.50	41.86	899.7	8.8	7.9	11.8	1.50	1.50	0.00
1,000.0	6.00	41.86	999.3	15.6	14.0	20.9	1.50	1.50	0.00
1,100.0	7.50	41.86	1,098.6	24.3	21.8	32.7	1.50	1.50	0.00
1,200.0	9.00	41.86	1,197.5	35.0	31.4	47.0	1.50	1.50	0.00
1,300.0	10.50	41.86	1,296.1	47.6	42.7	64.0	1.50	1.50	0.00
1,400.0	12.00	41.86	1,394.2	62.2	55.7	83.5	1.50	1.50	0.00
1,500.0	13.50	41.86	1,491.7	78.6	70.4	105.5	1.50	1.50	0.00
1,603.5	15.05	41.86	1,592.0	97,6	87.5	131.1	1.50	1.50	0.00
1,700.0	15.05	41.86	1,685.2	116.3	104.2	156.1	0.00	0.00	0.00
1,800.0	15.05	41.86	1,781.8	135.6	121.5	182.1	0.00	0.00	0.00
1,900.0	15.05	41.86	1,878.3	155.0	138.8	208.1	0.00	0.00	0.00
2,000.0	15.05	41.86	1,974.9	174.3	156.2	234.0	0.00	0.00	0.00
2,100.0	15.05	41.86	2,071.5	193.6	173.5	260.0	0.00	0.00	0.00
2,200.0	15.05	41.86	2,168.0	213.0	190.8	286.0	0.00	0.00	0.00
2,300.0	15.05	41.86	2,264.6	232.3	208.2	312.0	0.00	0.00	0.00
2,400.0	15.05	41.86	2,361.2	251.7	225.5	337.9	0.00	0.00	0.00
2,500.0	15.05	41.86	2,457.7	271.0	242.8	363.9	0.00	0.00	0.00
2,600.0	15.05	41.86	2,554.3	290.4	260.2	389.9	0.00	0.00	0.00
2,700.0	15.05	41.86	2,650.9	309.7	277.5	415.8	0.00	0.00	0.00
2,800.0	15.05	41.86	2,747.4	329.1	294.8	441.8	0.00	0.00	0.00
2,900.0	15.05	41.86	2,844.0	348.4	312.2	467.8	0.00	0.00	0.00
3,000.0	15.05	41.86	2,940.6	367.7	329.5	493.8	0.00	0.00	0.00
3,100.0	15.05	41.86	3,037.1	387.1	346.8	519.7	0.00	0.00	0.00
3,200.0	15.05	41.86	3,133.7	406.4	364.2	545.7	0.00	0.00	0.00
3,300.0	15.05	41.86	3,230.3	425.8	381.5	571.7	0.00	0.00	0.00
3,400.0	15.05	41.86	3,326.8	445.1	398.8	597.6	0.00	0.00	0.00
3,500.0	15.05	41.86	3,423.4	464.5	416.1	623.6	0.00	0.00	0.00
3,600.0	15.05	41.86	3,520.0	483.8	433.5	649.6	0.00	0.00	0.00
3,700.0	15.05	41.86	3,616.6	503.1	450.8	675.6	0.00	0.00	0.00
3,800.0	15.05	41.86	3,713.1	522.5	468.1	701.5	0.00	0.00	0.00
3,900.0	15.05	41.86	3,809,7	541.8	485.5	727.5	0.00	0.00	0.00
4,000.0	15.05	41.86	3,906.3	561.2	502.8	753.5	0.00	0.00	0.00
4,100.0	15.05	41.86	4,002.8	580.5	520.1	779.4	0.00	0,00	0.00
4,200.0	15.05	41.86	4,099.4	599.9	537.5	805.4	0.00	0.00	0.00
4,300.0	15.05	41.86	4,196.0	619.2	554.8	831.4	0.00	0.00	0.00
4,400.0	15.05	41.86	4,292.5	638.5	572.1	857.4	0.00	0.00	0.00
4,500.0	15.05	41.86	4,389.1	657.9	589.5	883.3	0.00	0.00	0.00
4,600.0	15.05	41.86	4,485.7	677.2	606.8	909.3	0.00	0.00	0.00
4,700.0	15.05	41.86	4,582.2	696.6	624.1	935.3	0.00	0.00	0.00
4,800.0	15.05	41.86	4,678.8	715.9	641.4	961.2	0.00	0.00	0.00
4,821.9	15.05	41.86	4,700.0	720.2	645.3	966.9	0.00	0.00	0.00
G-18-9-17 4,900.0 5,000.0 5,100.0	15.05	41.86	4,775.4	735.3	658.8	987.2	0.00	0.00	0.00
	15.05	41.86	4,871.9	754.6	676.1	1,013.2	0.00	0.00	0.00
	15.05	41.86	4,968.5	773.9	693.4	1,039.2	0.00	0.00	0.00



HATHAWAY BURNHAM

Planning Report



Database: Company: Project: Site:

EDM 2003.21 Single User Db NEWFIELD EXPLORATION USGS Myton SW (UT)

SECTION 18 T9S R17E

Well: Wellbore: Design:

G-18-9-17 Wellbore #1

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well G-18-9-17

G-18-9-17 @ 5480.0ft (Original Well Elev) G-18-9-17 @ 5480.0ft (Original Well Elev)

Grid

Minimum Curvature

Plan	nned	Sun	vov
riai	nnea	Sur	vey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.0	15.05	41.86	5,065.1	793.3	710.8	1,065.1	0.00	0.00	0.00
5,300.0	15.05	41.86	5,161.7	812.6	728.1	1,091.1	0.00	0.00	0.00
5,400.0	15.05	41.86	5,258.2	832.0	745.4	1,117.1	0.00	0.00	0.00
5,500.0	15.05	41.86	5,354.8	851.3	762.8	1,143.0	0.00	0.00	0.00
5,600.0	15.05	41.86	5,451.4	870.7	780.1	1,169.0	0.00	0.00	0.00
5,700.0	15.05	41.86	5,547.9	890.0	797.4	1,195.0	0.00	0.00	0.00
5,800.0	15.05	41.86	5,644.5	909.3	814.8	1,221.0	0.00	0.00	0.00
5,900.0	15.05	41.86	5,741.1	928.7	832.1	1,246.9	0.00	0.00	0.00
6,000.0	15.05	41.86	5,837.6	948.0	849.4	1,272.9	0.00	0.00	0.00
6,100.0	15.05	41.86	5,934.2	967.4	866.8	1,298.9	0.00	0.00	0.00
6,168.1	15.05	41.86	6,000.0	980.5	878.6	1.316.6	0.00	0.00	0.00

Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
G-18-9-17 TGT - plan hits target	0.00	0.00	4,700.0	720.2	645.3	7,184,639.36	2,045,405.19	40° 2' 4.933 N	110° 3' 12.675 W	

⁻ Circle (radius 75.0)



Project: USGS Myton SW (UT) Site: SECTION 18 T9S R17E

Well: G-18-9-17 Wellbore: Wellbore #1

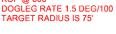
Design: Design #1

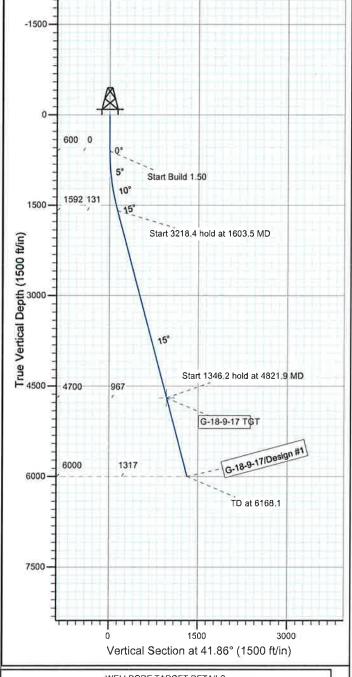
KOP @ 600' DOGLEG RATE 1.5 DEG/100



Azimuths to Grid North True North: -0.92° Magnetic North: 10.48°

Magnetic Field Strength: 52341.1snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010





WELLBORE TARGET DETAILS

Name G-18-9-17 TGT

TVD 4700.0

+N/-S 720.2

+E/-W Shape 645,3 Circle (Radius: 75,0)

HATHAWAY**®**BURNHAM DERECTIONAL & MWD SERVICES

1500				
1200			G. 18.9. 1710es	6169
900		G-18-9-17 T\$		16160
South(-)/North(+) (300 ft/in)		3500	1500	
300 -	1500	in in		
-300				
1,,,	W	300 est(-)/East(+) (3	600 800 ft/in)	900

MD Inc 0.0 0.00 600.0 0.00 1603.5 15.05 4821.9 15.05 +E/-W DLeg TFace 0.0 0.00 0.00 0.0 0.00 0.00 87.5 1.50 41.86 645.3 0.00 0.00 Azi 0.00 0.00 41.86 41.86 41.86 VSec 0.0 0.0 131.1 TVD 0.0 +N/-S Target 0.0 0.0 97.6 600.0 1592.0 2 3 4 4700.0 0.00 966.9 0.00 1316.6 G-18-9-17 TGT 6168 1 15.05 6000.0 980.5 878.6 0.00

SECTION DETAILS

NEWFIELD PRODUCTION COMPANY GREATER MONUMENT BUTTE G-18-9-17 AT SURFACE: (LOT #2) SW/NW SECTION 18, T9S, R17E DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Greater Monument Butte G-18-9-17 located in the SW 1/4 NW 1/4 Section 18, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40-1.4 miles \pm to the junction of this highway and UT State Hwy 53; proceed southeasterly -11.3 miles \pm to it's junction with an existing road to the southwest; proceed southwesterly -3.5 miles \pm to it's junction with an existing road to the north; proceed northerly -0.5 miles \pm to it's junction with an existing road to the northeast; proceed northeasterly -0.1 miles \pm to the existing 5-18-9-17 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

2. PLANNED ACCESS ROAD

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 5-18-9-17 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. <u>LOCATION AND TYPE OF WATER SUPPLY</u>

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District Water Right: 43-10136

Maurice Harvey Pond Water Right: 47-1358

Neil Moon Pond

Water Right: 43-11787

Newfield Collector Well

Water Right: 41-1817 (A30414DVA, contracted with the Duchesne County Conservancy

District).

There will be no water well drilled at this site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. <u>METHODS FOR HANDLING WASTE DISPOSAL</u>

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. PLANS FOR RESTORATION OF SURFACE:

a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. SURFACE OWNERSHIP - Bureau of Land Management.

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #10-216, 11/1/10. Paleontological Resource Survey prepared by, Wade E. Miller, 5/11/05. See attached report cover pages, Exhibit "D".

Surface Flow Line

Newfield requests 788' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "D"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

<u>Clearing and Grading</u>: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

<u>Installation</u>: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

<u>Termination and Final Reclamation:</u> After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

Additional Surface Stipulations

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

Details of the On-Site Inspection

The proposed Greater Monument Butte G-18-9-17 was on-sited on 10/6/10. The following were present; Tim Eaton (Newfield Production), Christine Cimiluca (Bureau of Land Management), and Janna Simonsen (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte G-18-9-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Greater Monument Butte G-18-9-

17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

13. LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:

Representative

Name:

Tim Eaton

Address:

Newfield Production Company

Route 3, Box 3630 Myton, UT 84052

Telephone:

(435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #G-18-9-17, Section 18, Township 9S, Range 17E: Lease UTU-72106 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

11/24/10 Date

Mandie Crozier

Mandie Crozier

Specialist Regulatory Specialist

Newfield Production Company

2-M SYSTEM

Blowout Prevention Equipment Systems

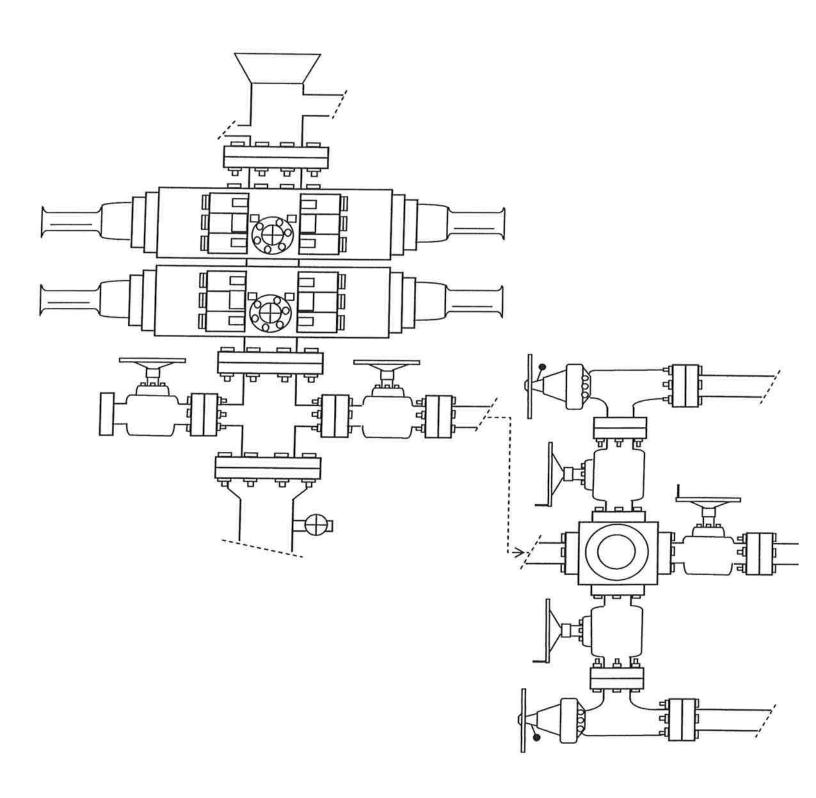


EXHIBIT C



November 29, 2010

State of Utah, Division of Oil, Gas and Mining ATTN: Diana Mason P.O. Box 145801 Salt Lake City, UT 84114-5801

RE:

Directional Drilling

Greater Monument Butte G-18-9-17 Greater Monument Butte (Green River) Unit

Surface Hole:

T9S-R17E Section 18: SWNW (Lot 2) (UTU-72106)

1947' FNL 693' FWL

At Target:

T9S-R17E Section 18: NENW (UTU-72106)

984' FNL 1588' FWL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 11/24/10, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing preexiting roads and pipelines.

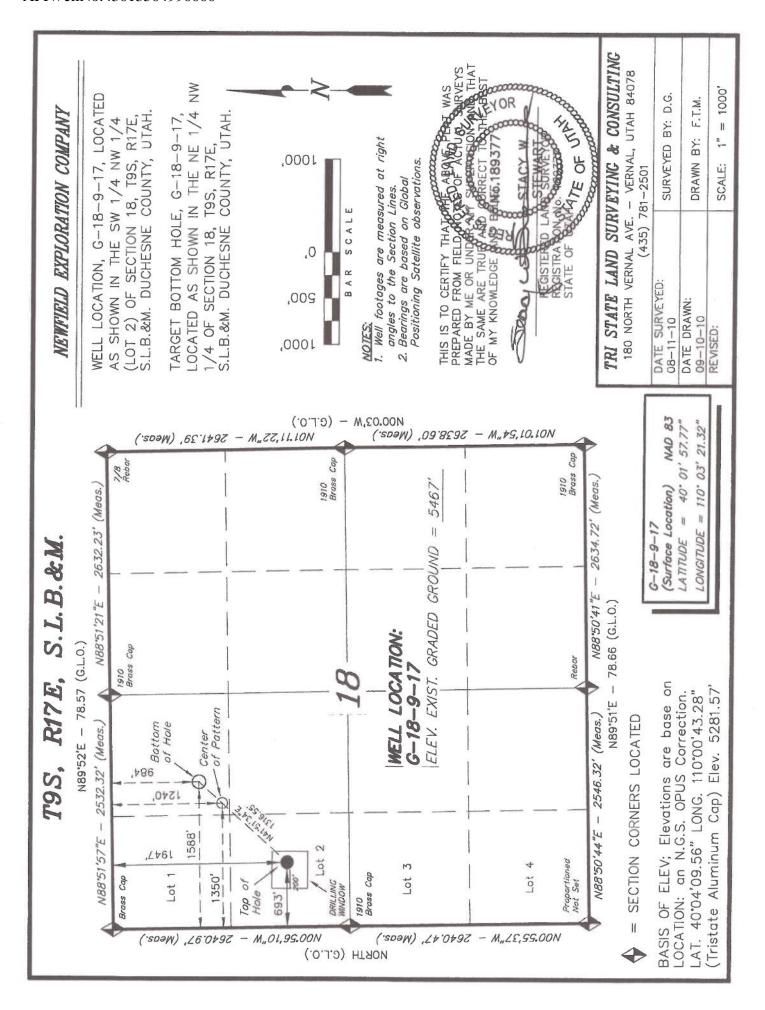
NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration in this matter is greatly appreciated.

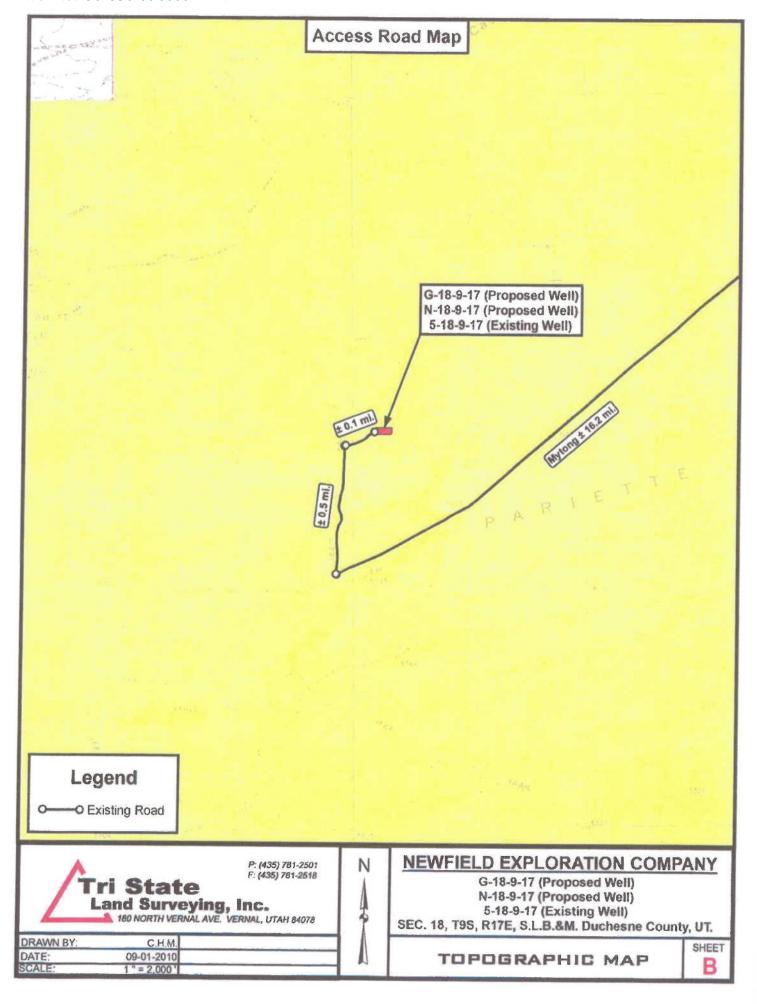
Sincerely,

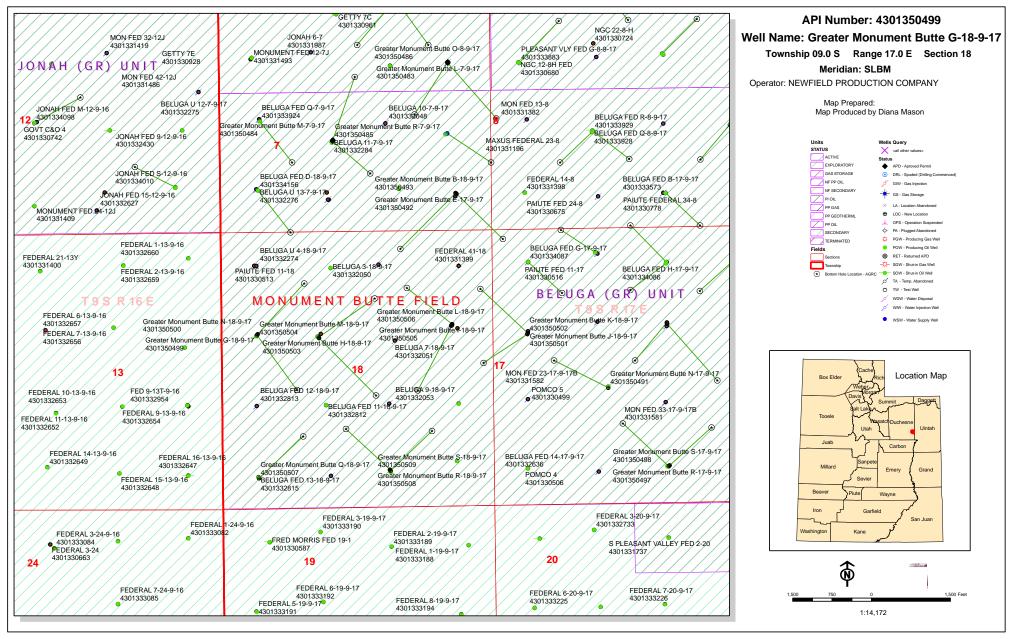
Newfield Production Company

Shane Gillespie Land Associate

Form 3160-3 (August 2007)			8	OMB N	APPROVED to 1004-0137 July 31, 2010			
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN				5. Lease Serial No. UTU-72106	,			
APPLICATION FOR PERMIT TO I				6. If Indian, Alloted	or Tribe Nam	e		
la Type of work:		7 If Unit or CA Agreement, Name and No. Greater Monument Butte						
lb. Type of Well: Oil Well Gas Well Other	ple Zone	 Lease Name and Well No. Greater Monument Butte G-18-9-17 						
Name of Operator Newfield Production Company			-	9. API Well No.				
3a. Address Route #3 Box 3630, Myton UT 84052		10. Field and Pool, or Exploratory Monument Butte						
4. Location of Well (Report location clearly and in accordance with any	State requirem	ents.*)		11. Sec., T. R. M. or I	Blk.and Survey	or Area		
At surface (LOT #2) SW/NW 1947' FNL 693' FWL S	ec. 18, T9S	R17E (UTU-721)	06)	Sec. 18, T9S F	R17E			
At proposed prod. zone NE/NW 984' FNL 1588' FWL Sec.	18, T9S R1	7E (UTU-72106)	- Leaderston					
14. Distance in miles and direction from nearest town or post office* Approximately 16.8 miles southeast of Myton, UT				12, County or Parish Duchesne	13. U1	State T		
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 1052' f/lse, NA' f/unit (Also to nearest drig, unit line, if any)	n to nearest							
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 764'	ce from proposed location* 19. Proposed Depth est well, drilling, completed,				LM/BIA Bond No. on file WYB000493			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5467' GL	22. Approxim	nate date work will sta	nt*	Estimated duration (7) days from SPUD to rig release				
	24. Attac	hments						
The following, completed in accordance with the requirements of Onshore	Oil and Gas	Order No.1, must be a	ttached to th	is form:				
 Well plat certified by a registered surveyor. A Drilling Plan. 		Item 20 above).		ns unless covered by ar	existing bond	on file (see		
 A Surface Use Plan (if the location is on National Forest System L SUPO must be filed with the appropriate Forest Service Office). 	ands, the	Operator certific Such other site BLM.		ormation and/or plans a	s may be requi	red by the		
25. Signature Committee Croin		(Printed/Typed) le Crozier			Date	4110		
Title Regulatory Specialist					1			
Approved by (Signature)	Name	(Printed/Typed)	Date					
Title	Office	Office						
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equit	able title to those righ	ts in the sub	ject lease which would	entitle the appli	cant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crin States any false, fictitious or fraudulent statements or representations as to	me for any pe any matter w	rson knowingly and vithin its jurisdiction.	villfully to n	nake to any department	or agency of th	e United		
(Continued on page 2)				*(1mos	tructions or			







United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

November 30, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Greater Monument

Butte Unit, Duchesne and Uintah Counties,

Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Sec 17 T09S R17E 2204 FSL 2172 FWL

API# WELL NAME LOCATION

(Proposed PZ GREEN RIVER)

43-013-50491 GMBU N-17-9-17

BHL Sec 17 T09S R17E 2528 FNL 1145 FWL

43-013-50492 GMBU E-17-9-17 Sec 07 T09S R17E 0679 FSL 0676 FEL
BHL Sec 17 T09S R17E 0200 FNL 0197 FWL

43-013-50493 GMBU B-18-9-17 Sec 07 T09S R17E 0690 FSL 0695 FEL
BHL Sec 18 T09S R17E 0351 FNL 1758 FEL

43-013-50494 GMBU K-17-9-17 Sec 16 T09S R17E 1967 FSL 0652 FWL
BHL Sec 17 T09S R17E 2402 FNL 0168 FEL

43-013-50495 GMBU L-17-9-17 Sec 17 T09S R17E 1856 FNL 1980 FEL
BHL Sec 17 T09S R17E 2301 FSL 1028 FEL

43-013-50496 GMBU M-17-9-17 Sec 17 T09S R17E 1835 FNL 1981 FEL BHL Sec 17 T09S R17E 2553 FNL 2592 FEL

43-013-50497 GMBU R-17-9-17 Sec 17 T09S R17E 0684 FSL 1962 FEL BHL Sec 17 T09S R17E 1516 FSL 2447 FWL

43-013-50498 GMBU S-17-9-17 Sec 17 T09S R17E 0699 FSL 1947 FEL

BHL Sec 17 T09S R17E 1412 FSL 1143 FEL

Page 2

API#	WELL NAME		LOCATION					
(Proposed PZ	GREEN RIVER)							
43-013-50499	GMBU G-18-9-17 BI	Sec HL Sec						
43-013-50500	GMBU N-18-9-17 BI	Sec HL Sec						
43-013-50501	GMBU J-18-9-17 BI	Sec HL Sec						
43-013-50502	GMBU K-18-9-17 BI	Sec HL Sec						
43-013-50503	GMBU H-18-9-17 BI	Sec HL Sec						
43-013-50504	GMBU M-18-9-17 BI	Sec HL Sec						
43-013-50505	GMBU I-18-9-17 BI	Sec HL Sec						
43-013-50506	GMBU L-18-9-17 BI	Sec HL Sec						
43-013-50507	GMBU Q-18-9-17 BI	Sec HL Sec						
43-013-50508	GMBU R-18-9-17 BH	Sec HL Sec						
43-013-50509	GMBU S-18-9-17 BH	Sec HL Sec						

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard

DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals email=Michael_Coulthard@blm.gov, c=US

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:11-30-10



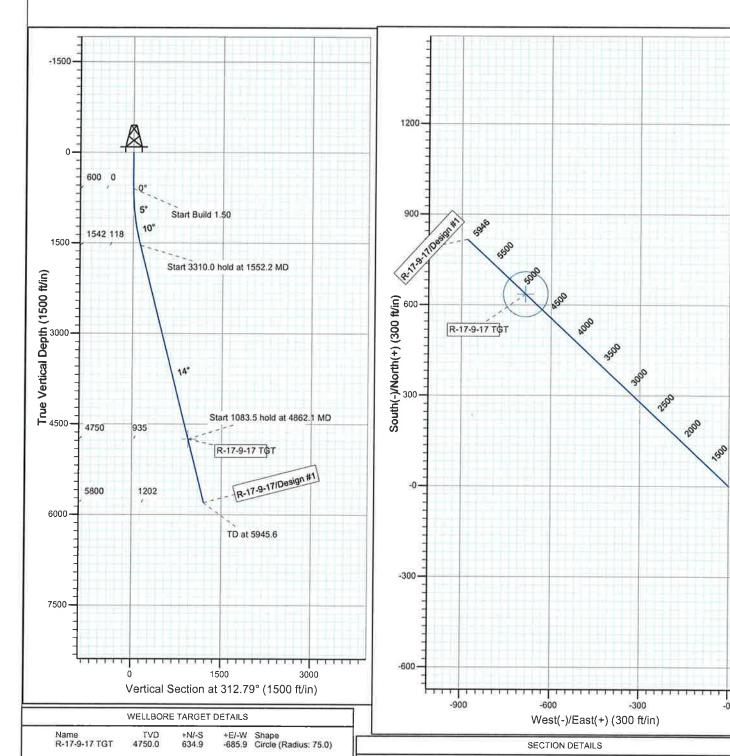
Project: USGS Myton SW (UT) Site: SECTION 17 T9S, R17E

Well: R-17-9-17 Wellbore: Wellbore #1 Design: Design #1

Azimuths to True North Magnetic North: 11.39°

Magnetic Field Strength: 52341.8snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



HATHAWAY #BBURNHAM

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 Azi
 TVD
 +N/-S
 +E/-W
 DLeg
 TFace
 VSec
 Target

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Project: USGS Myton SW (UT) Site: SECTION 17 T9S, R17E

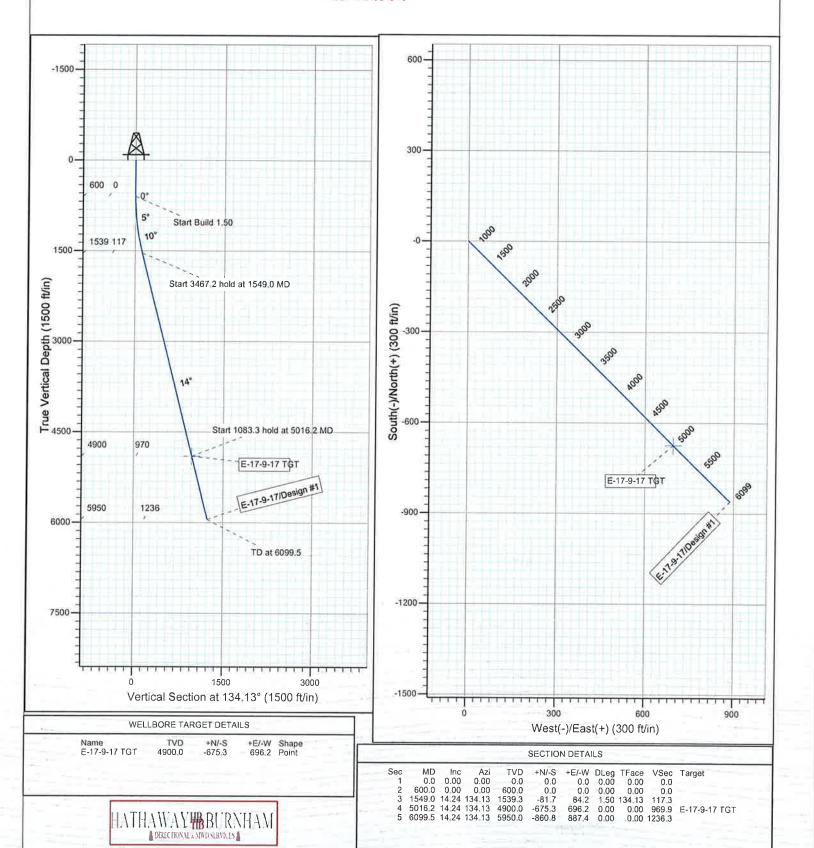
Well: E-17-9-17 Wellbore: Wellbore #1 Design: Design #1

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



Azimuths to True North Magnetic North: 11.40°

Magnetic Field Strength: 52346.0snT Dip Angle: 65.81° Date: 2010/09/13 Model: IGRF2010





Project: USGS Myton SW (UT) Site: SECTION 18 T9S R17E

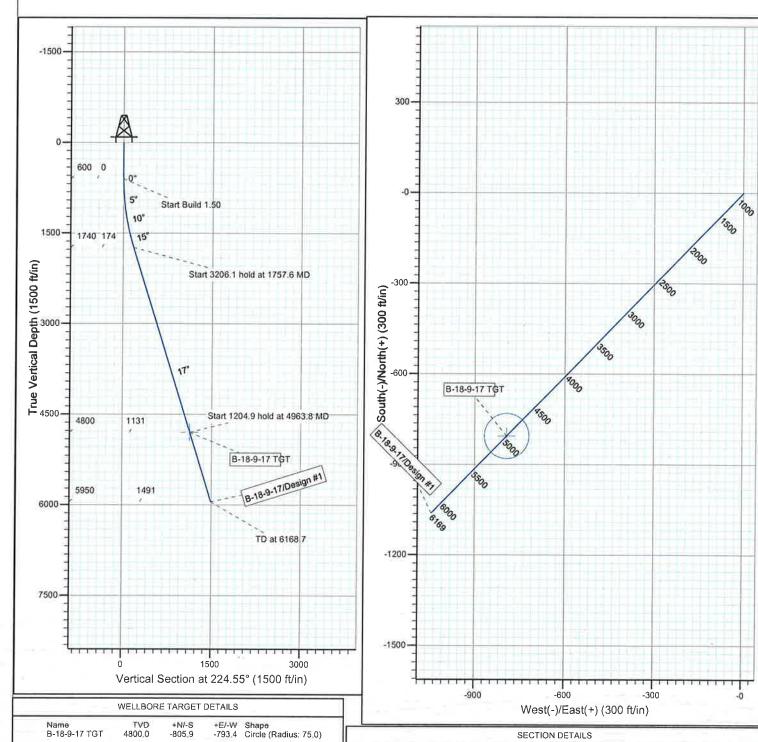
Well: B-18-9-17 Wellbore: Wellbore #1 Design: Design #1



Azimuths to Grid North True North: -0.93° Magnetic North: 10.47°

Magnetic Field Strength: 52346.0snT Dip Angle: 65.81° Date: 2010/09/13 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



HATHAWAY BURNHAM

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 +E/-W
 DLeg
 TFace
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 Target

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 1.24,1
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Project: USGS Myton SW (UT) Site: SECTION 16 T9S, R17E

Well: K-17-9-17 Wellbore: Wellbore #1 Design: Design #1

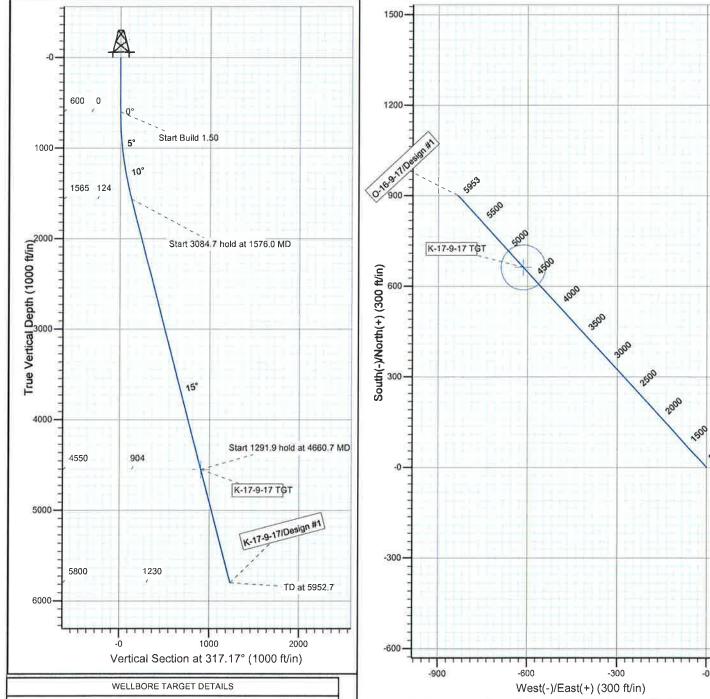
gn: Design #1



Azimuths to True North Magnetic North: 11.37°

Magnetic Field Strength: 52326.4snT Dip Angle: 65.81° Date: 2010/11/17 Model: IGRF2010





Name TVD +N/-S +E/-W Shape K-17-9-17 TGT 4550,0 662,7 -614,3 Circle (Radius: 75,0)



Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	•
2	600,0	0.00	0,00	600.0	0.0	0,0	0.00	0.00	0.0	
3	1576,0	14,64	317,17	1565.4	91.0	-84.3	1,50	317.17	124.0	
4	4660.7	14.64	317,17	4550.0	662.7	-614.3	0.00	0.00	903.7	K-17-9-17 TGT
6	5052.7	14 64	217 17	5900.0	902.2	9363	0.00	0.00	1220 2	

SECTION DETAILS

& DERECHONAL ANNI SERVICES &



Project: USGS Myton SW (UT)

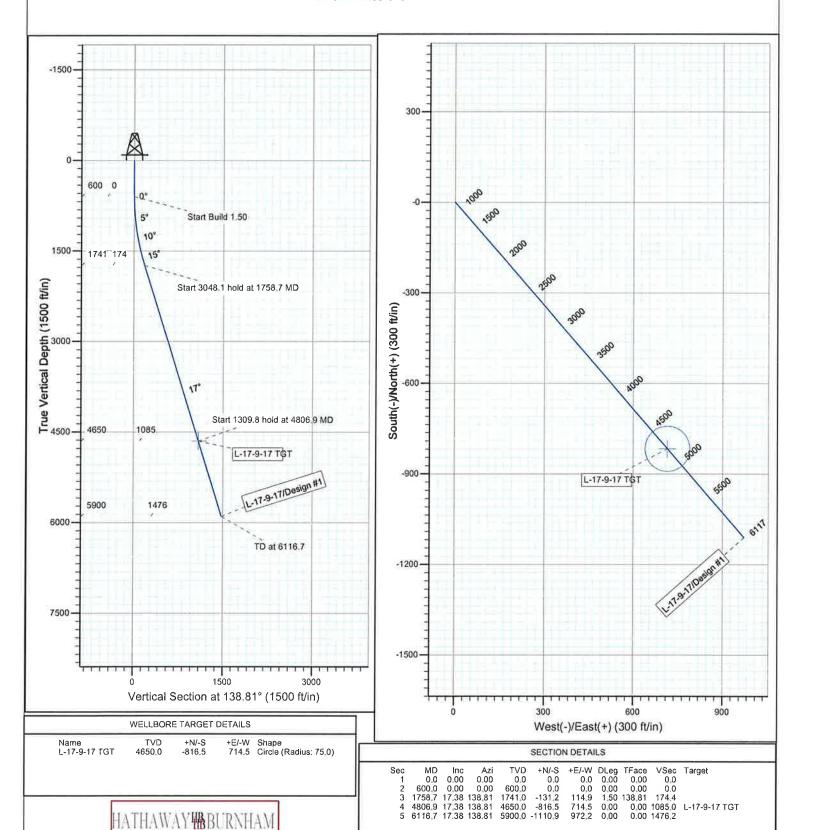
Site: SECTION 9 Well: L-17-9-17 Wellbore: Wellbore #1 Design: Design #1



Azimuths to True North Magnetic North: 11.40°

Magnetic Field Strength: 52347.9snT Dip Angle: 65.81° Date: 2010/08/31 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'





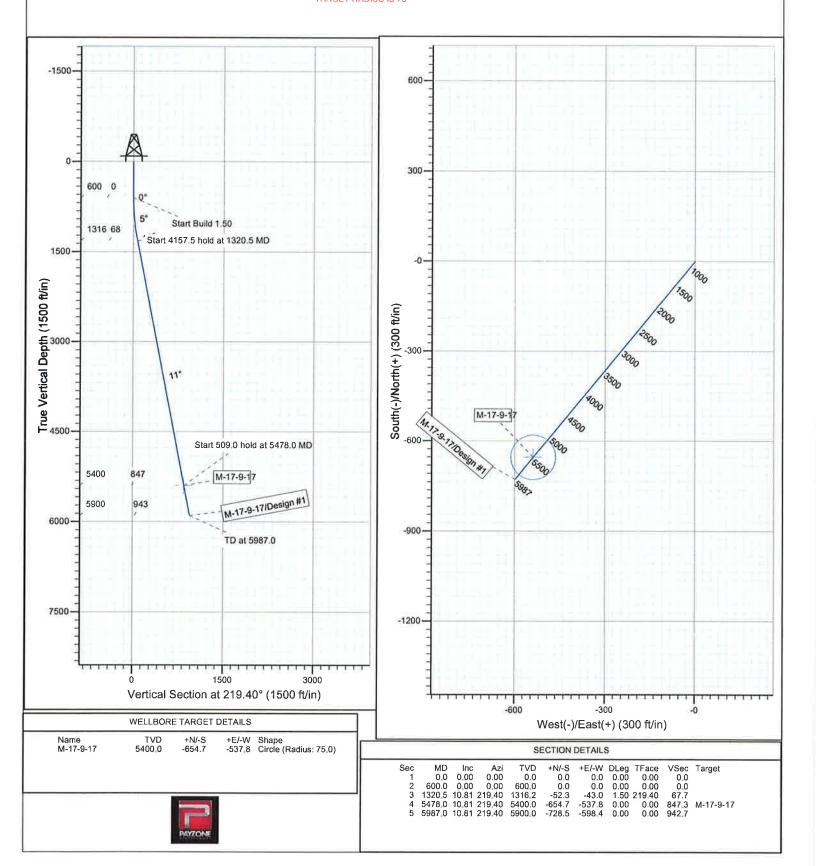
Well: M-17-9-17 Wellbore: Wellbore #1 Design: Design #1



Azimuths to True North Magnetic North: 11.39°

Magnetic Field Strength: 52340.6snT Dip Angle: 65.81° Date: 2010/09/27 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



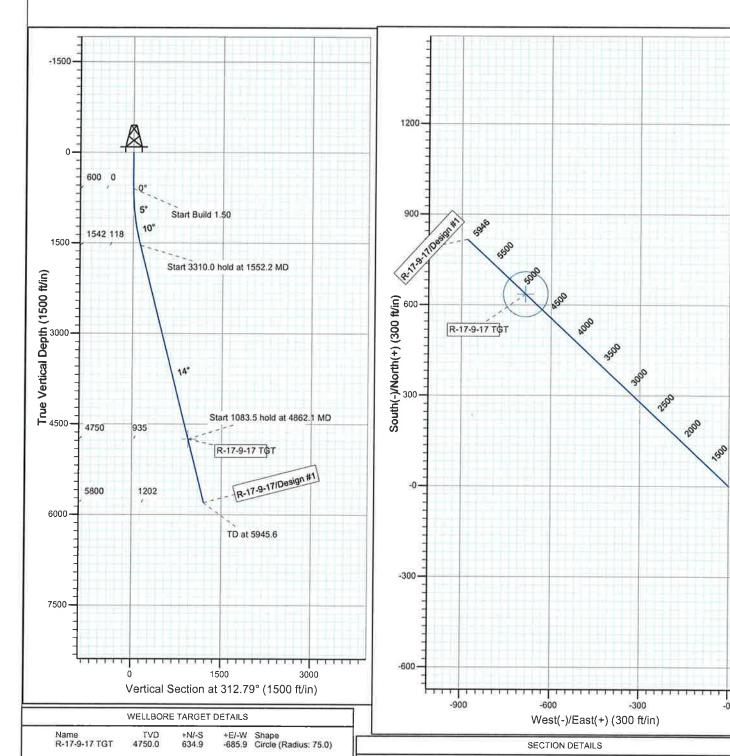


Well: R-17-9-17 Wellbore: Wellbore #1 Design: Design #1

Azimuths to True North Magnetic North: 11.39°

Magnetic Field Strength: 52341.8snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



HATHAWAY #BBURNHAM

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 Azi
 TVD
 +N/-S
 +E/-W
 DLeg
 TFace
 VSec
 Target

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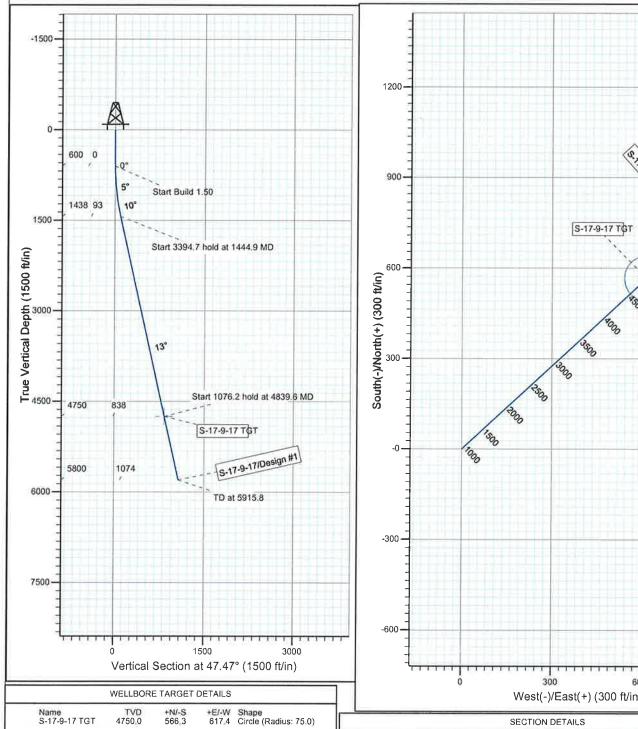
Well: S-17-9-17 Wellbore: Wellbore #1 Design: Design #1



Azimuths to True North Magnetic North: 11.39°

Magnetic Field Strength: 52341.9snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



600 900 West(-)/East(+) (300 ft/in)

HATHAWAY BURNHAM

DRECTIONAL & MWD SERVELS

+E/-W DLeg 0.0 0.00 0.0 0.00 68.6 1.50 617.4 0.00 791.4 0.00 TVD 0.0 600.0 1438.0 4750.0 VSec **TFace** Target 0.0 0.00 0.00 600 0 0.00 0.00 1444 9 12 67 47 47 4839 6 12 67 47.47 0.0 0.0 62.9 0.00 0.0 0.0 93.1 566.3 725.9 0.00 837.8 0.00 1073.9 S-17-9-17 TGT 47.47 5800.0



Project: USGS Myton SW (UT)

Site: SECTION 18 T9S R17E Well: G-18-9-17

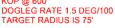
Wellbore: Wellbore #1 Design: Design #1

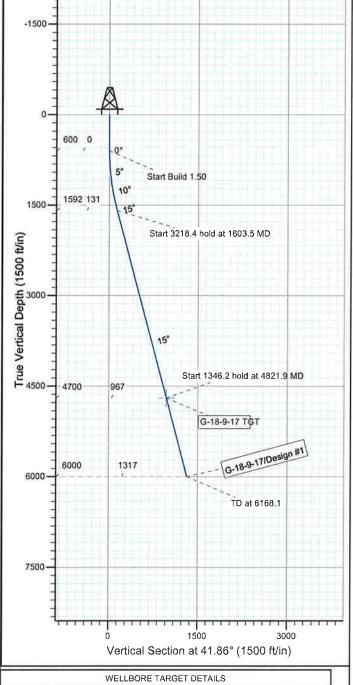
KOP @ 600' DOGLEG RATE 1.5 DEG/100



Azimuths to Grid North True North: -0.92° Magnetic North: 10.48°

Magnetic Field Strength: 52341.1snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010





Name G-18-9-17 TGT

TVD 4700.0

+N/-S 720.2

+E/-W Shape 645,3 Circle (Radius: 75,0)



1500	
1200	G. Id. 9. T. T. Dengar At 1
900	70700
South(-)/North(+) (300 fVin)	\$500 \$500 \$500 \$500 \$500 \$500 \$500 \$500
-300	
	6 300 600 900 West(-)/East(+) (300 ft/in)
	SECTION DETAILS

+E/-W DLeg TFace 0.0 0.00 0.00 0.0 0.00 0.00 87.5 1.50 41.86 645.3 0.00 0.00

0.00

878.6

VSec 0,0 0,0 131,1

0.00 966.9 0.00 1316.6

Target

G-18-9-17 TGT

Azi 0.00 0.00 41.86 41.86 41.86

TVD 0.0

600.0 1592.0

4700.0

6000.0

97.6 720.2

980.5

MD

2 3 4

MD Inc 0.0 0.00 600 0 0.00 1603 5 15.05 4821 9 15.05

6168 1 15.05



Well: N-18-9-17 Wellbore: Wellbore #1 Design: Design #1

300

-0-

1000

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75

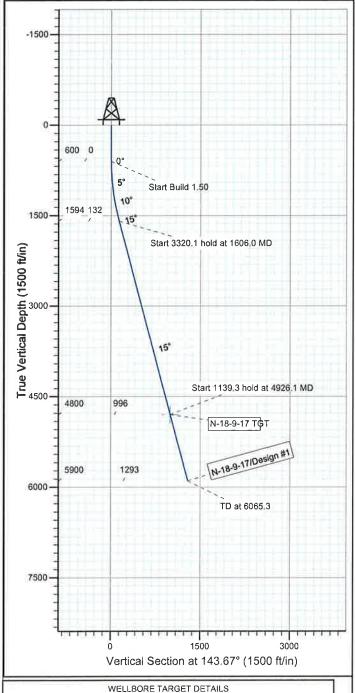


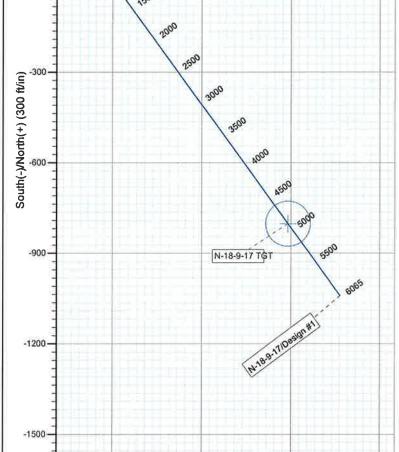
Azimuths to Grid North True North: -0.92° Magnetic North: 10.48°

Magnetic Field Strength: 52341.1snT Dip Angle: 65.81° Date: 2010/09/07

Model: IGRF2010

900





300

SECTION DETAILS

0.0

-106.1 -802.4

-1041.3

0.0 600_.0

1594.4 4800.0

5900.0

MD Inc Azi 0.0 0.00 0.00 600.0 0.00 0.00 1606.0 15.09 143.67 4926.1 15.09 143.67 6065.3 15.09 143.67

West(-)/East(+) (300 ft/in)

+E/-W DLeg 0.0 0.00 0.0 0.00

0,00

78.0 590.1

765.8

600

VSec 0.0 0.0 131.7 996.0

N-18-9-17 TGT

TFace

0.00 1.50 143.67 0.00 0.00

0.00 996.0 0.00 1292.6

+E/-W Shape 590.1 Circle (Radius: 75.0) TVD +N/-S N-18-9-17 TGT 4800.0 -802.4





Well: J-18-9-17 Wellbore: Wellbore #1 Design: Design #1

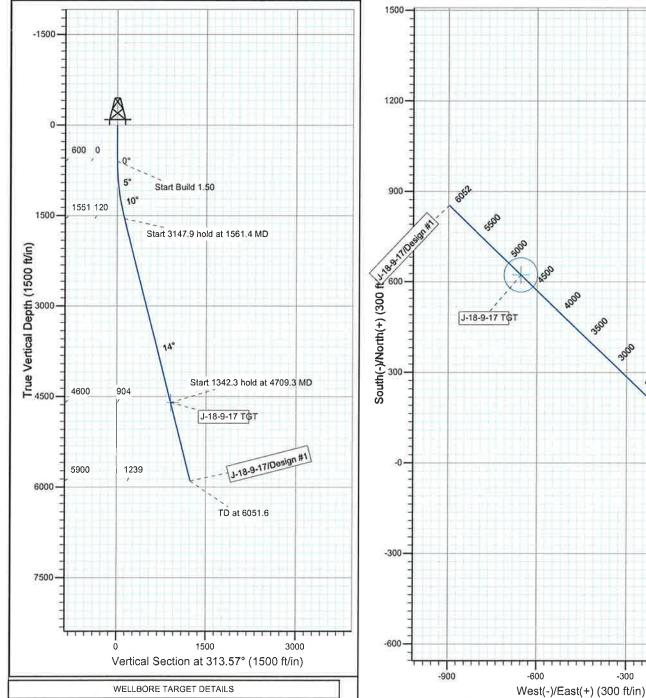
G

3500

Azimuths to Grid North True North: -0.94° Magnetic North: 10.46°

Magnetic Field Strength: 52344.1snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75



SECTION DETAILS

-300

+E/-W DLeg 0.0 0.00 0.0 0.00 -87.2 1.50 -655.2 0.00 -897.4 0.00 VSec 0.0 0.0 120.4 904.3 TFace 0.00 0.00 MD 0.0 Inc 0,00 Azi 0.00 TVD 0.0 +N/-S 0.0 0.0 83.0 623.3 853.7 600.0 0.00 0.00 1561.4 14.42 313.57 4709.3 14.42 313.57 600.0 1551.3 4600.0 1.50 313.57 0.00 0.00 J-18-9-17 TGT 6051.6 14.42 313.57 5900.0 0.00 1238.6

Name J-18-9-17 TGT 4600.0

+E/-W Shape -655.2 Circle (Radius: 57.0) +N/-S 623.3

HATHAWAY₩BURNHAM DIRECTIONAL & MWD SERVICES



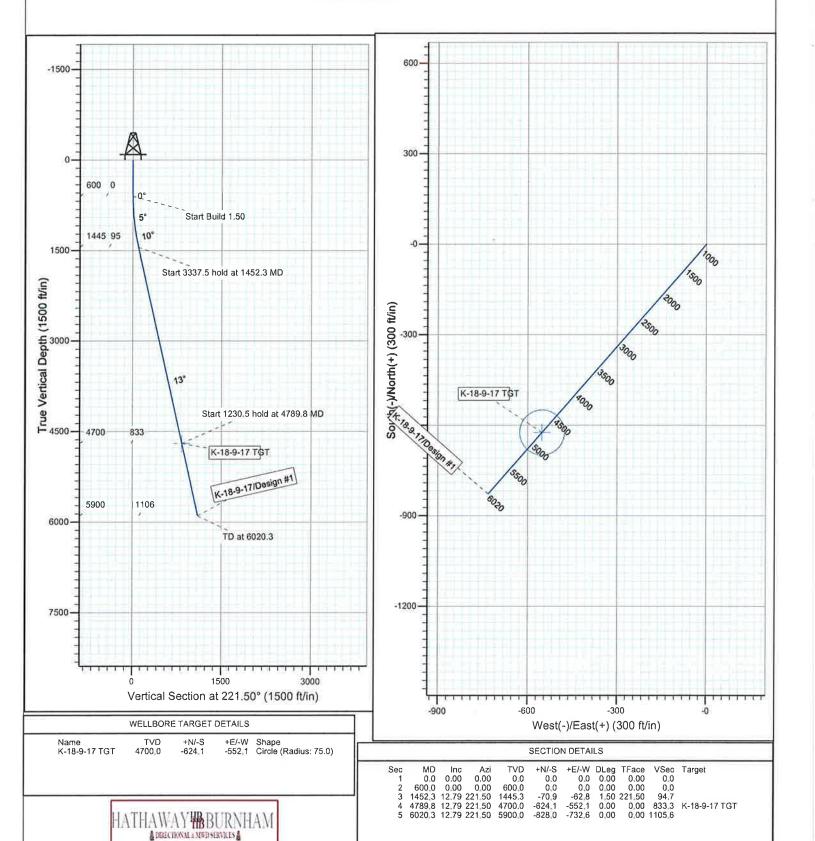
Well: K-18-9-17 Wellbore: Wellbore #1 Design: Design #1

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Azimuths to Grid North True North: -0.94° Magnetic North: 10.46°

Magnetic Field Strength: 52344.1snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'





Well: H-18-9-17

1200

900

South(-)/North(+) (300 ft/in)

-300

1000

Wellbore: Wellbore #1 Design: Design #1

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'

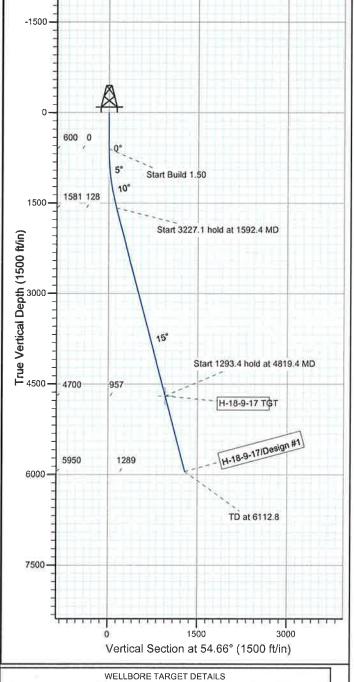


H-18-9-17 TGT

Azimuths to Grid North True North: -0.93° Magnetic North: 10.48°

Magnetic Field Strength: 52341.7snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010





Name H-18-9-17 TGT

4700.0

553.7

HATHAWAY #BURNHAM

A DIRECTIONAL & SIND SERVICES A

+E/-W Shape 780.8 Circle (Radius: 75.0)



-600 300 600 900 West(-)/East(+) (300 ft/in) SECTION DETAILS TVD 0.0 600.0 1581.2 4700.0 MD Inc 0.0 0.00 600.0 0.00 +E/-W DLeg 0.0 0.00 0.0 0.00 Azi 0.00 0.00 Target 0.0 0.0 74.1 553.7 0,00 0.0 2 3 4 1592 4 14 89 4819 4 14 89 54.66 54.66 104.6 780.8 54,66 0.00 128.2 957.2 H-18-9-17 TGT 1.50 5950.0 745.8 1051.8 0.00 0.00



Project: USGS Myton SW (UT)

Site: SECTION 18 T9S R17E

Well: M-18-9-17 Wellbore: Wellbore #1 Design: Design #1

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75°



4000

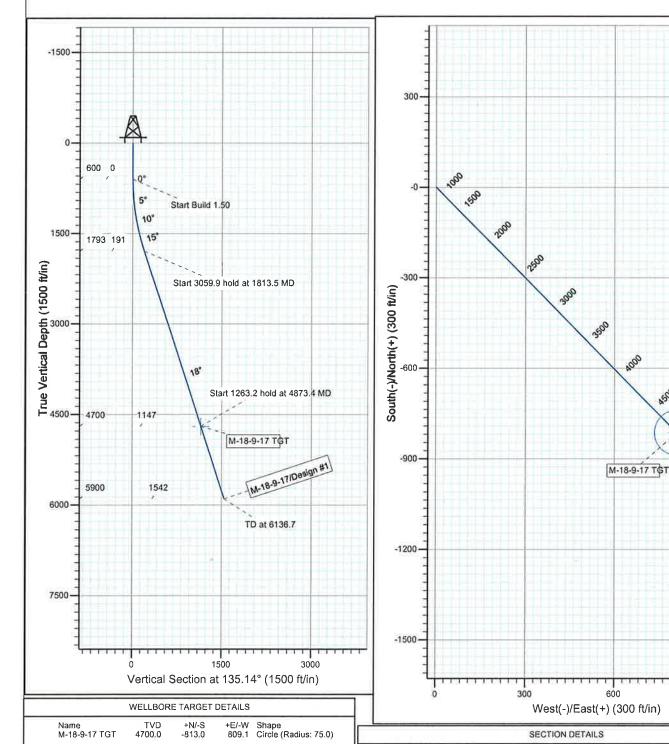
Azimuths to Grid North True North: -0.93° Magnetic North: 10.48°

Magnetic Field Strength: 52341.7snT Dip Angle: 65.81° Date: 2010/09/07

Model: IGRF2010

5500

900



HATHAWAY**&**BURNHAN

DERECHONAL ANADSERVRIS

VSec 0.0 0.0 191.2 0.00 0.00 MD 0.0 Inc 0.00 Azi 0.00 TVD 0,0 +N/-S 0.0 +E/-W DLeg 0.0 0.00 +E/-W 0.0 0.0 134.8 809.1 600.0 0.00 0.00 1813.5 18.20 135.14 4873.4 18.20 135.14 600.0 1793.2 0.0 -135.5 0.00 0.00 1.50 135.14 2 3 4 5 4700.0 M-18-9-17 TGT 6136.7 18.20 135.14 5900.0 -1092.8 1087.4 0.00 0.00 1541.6



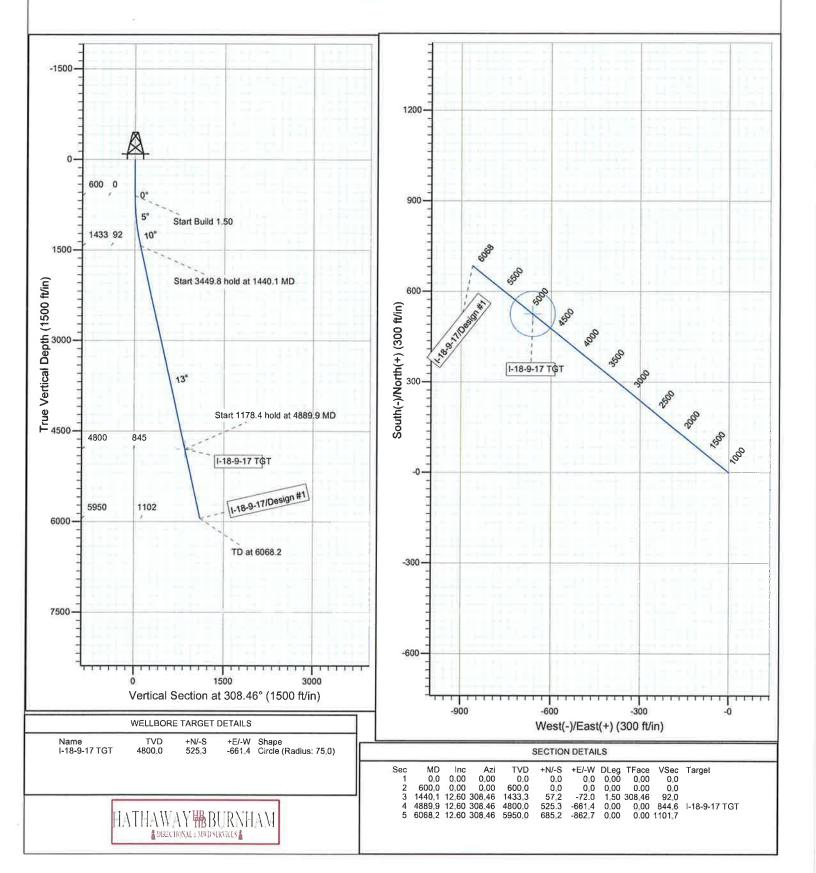
Well: I-18-9-17 Wellbore: Wellbore #1 Design: Design #1



Azimuths to Grid North True North: -0.93° Magnetic North: 10.46°

Magnetic Field Strength: 52341.9snT Dip Angle: 65.81° Date: 2010/09/13 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'





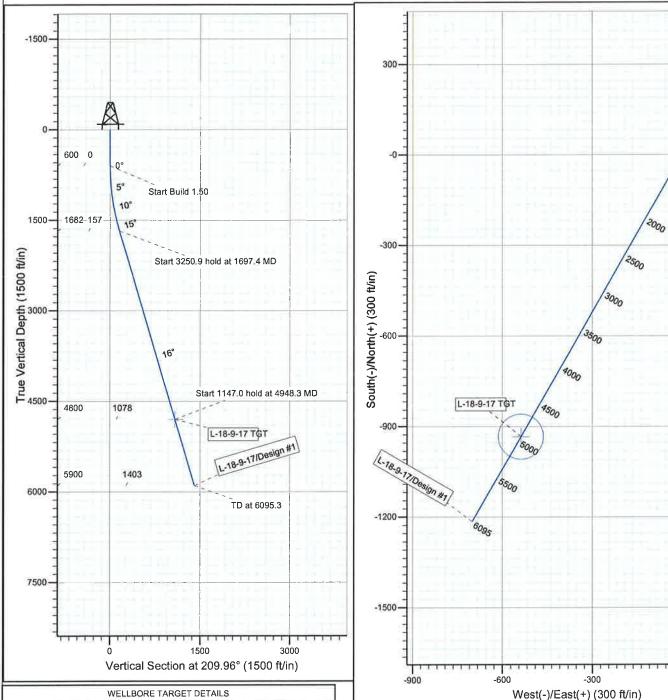
Well: L-18-9-17 Wellbore: Wellbore #1 Design: Design #1



Azimuths to Grid North True North: -0.93° Magnetic North: 10.46°

Magnetic Field Strength: 52341.9snT Dip Angle: 65.81° Date: 2010/09/13 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



WELLBORE TARGET DETAILS

+E/-W Shape -538,2 Circle (Radius: 75,0) Name L-18-9-17 TGT TVD 4800.0 +N/-S -933.7

HATHAWAY**&**BURNHAM

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	-	
2	600.0	0.00	0.00	600.0	0.0	0.0	0,00	0.00	0.0		
3	1697.4	16.46	209,96	1682.4	-135,6	-78,2	1,50	209.96	156.6		
4	4948.3	16.46	209.96	4800.0	-933.7	-538,2	0,00	0.00	1077.7	L-18-9-17 TGT	
5	6095.3	16.46	209.96	5900.0	-1215.3	-700.5	0.00	0.00	1402.8		

SECTION DETAILS



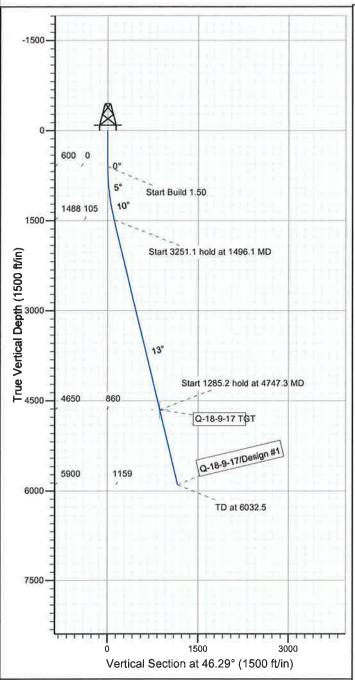
Well: Q-18-9-17 Wellbore: Wellbore #1 Design: Design #1



Azimuths to Grid North True North: -0.92° Magnetic North: 10.48°

Magnetic Field Strength: 52334.4snT Dip Angle: 65.80° Date: 2010/09/15 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'



 WELLBORE TARGET DETAILS

 Name Q-18-9-17 TGT
 TVD 4650,0
 +N/-S 594,5
 +E/-W 621,9
 Shape Circle (Radius: 75,0)



1200-900-Q-18-9-17 TGT South(-)/North(+) (300 ft/in) -0 -300 -600 900 West(-)/East(+) (300 ft/in)

					A						
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0,00	0,0		
3	1496.1	13.44	46.29	1487.9	72.3	75.6	1.50	46.29	104.6		
4	4747.3	13.44	46.29	4650.0	594.5	621.9	0.00	0.00	860.4	Q-18-9-17 TGT	
5	6032.5	13.44	46.29	5900.0	801.0	837.9	0.00	0,00	1159,1		

SECTION DETAILS



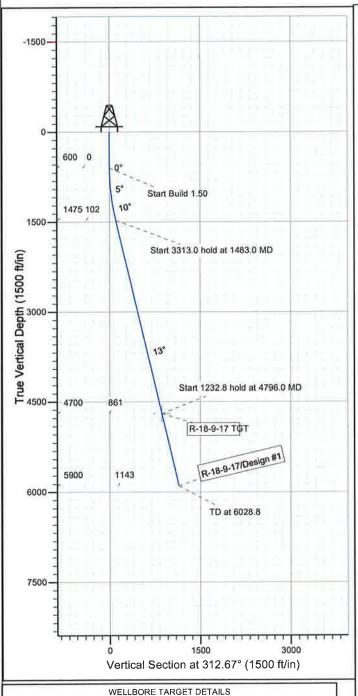
Well: R-18-9-17 Wellbore: Wellbore #1 Design: Design #1

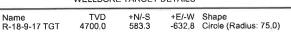


Azimuths to Grid North True North: -0.93° Magnetic North: 10.47°

Magnetic Field Strength: 52336.1snT Dip Angle: 65.80° Date: 2010/09/15 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'







1200-R.189 TIDESULT 900-6029 South(-)/North(+) (300 ft/in) R-18-9-17 TGT -0 -300 -600 -300 -900 West(-)/East(+) (300 ft/in)

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0,0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1483.0	13.25	312,67	1475.2	68.9	-74.7	1.50	312.67	101,6	
4	4796.0	13.25	312.67	4700.0	583.3	-632.8	0.00	0.00	860.7	R-18-9-17 TGT
5	6028.8	13.25	312.67	5900.0	774.8	-840.5	0.00	0.00	1143.1	

SECTION DETAILS



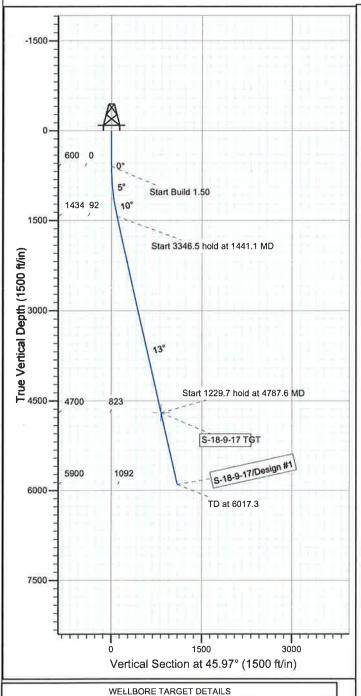
Well: S-18-9-17 Wellbore: Wellbore #1 Design: Design #1

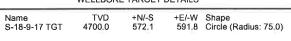


Azimuths to Grid North True North: -0.93° Magnetic North: 10.47°

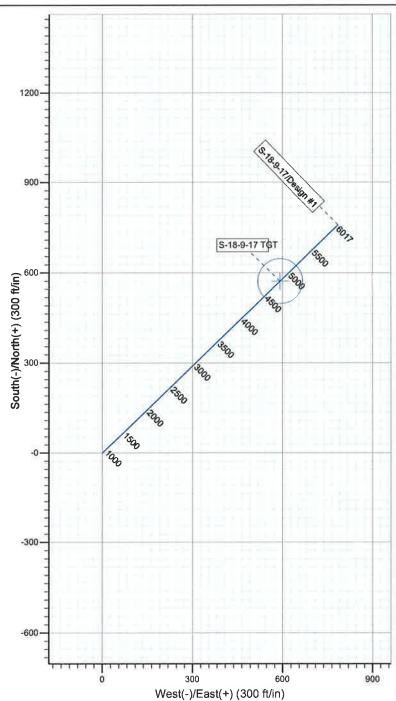
Magnetic Field Strength: 52336.1snT Dip Angle: 65.80° Date: 2010/09/15 Model: IGRF2010

KOP @ 600' DOGLEG RATE 1.5 DEG/100 TARGET RADIUS IS 75'









SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0,00	0.00	0.0	·
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1441.1	12.62	45.97	1434.3	64.1	66.3	1.50	45.97	92.2	
4	4787.6	12,62	45.97	4700.0	572.1	591.8	0.00	0,00	823.1	S-18-9-17 TGT
5	6017.3	12.62	45.97	5900.0	758.8	784.9	0.00	0.00	1091,7	

WORKSHEET APPLICATION FOR PERMIT TO DRILL

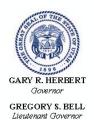
APD RECEIVED: 11/24/2010 **API NO. ASSIGNED:** 43013504990000 WELL NAME: Greater Monument Butte G-18-9-17 **OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695) **PHONE NUMBER:** 435 646-4825 **CONTACT:** Mandie Crozier PROPOSED LOCATION: SWNW 18 090S 170E **Permit Tech Review: SURFACE: 1947 FNL 0693 FWL Engineering Review: BOTTOM: 0984 FNL 1588 FWL** Geology Review: **COUNTY: DUCHESNE LATITUDE: 40.03278 LONGITUDE:** -110.05514 UTM SURF EASTINGS: 580617.00 **NORTHINGS: 4431613.00** FIELD NAME: MONUMENT BUTTE LEASE TYPE: 1 - Federal **LEASE NUMBER: UTU-72106** PROPOSED PRODUCING FORMATION(S): GREEN RIVER SURFACE OWNER: 1 - Federal **COALBED METHANE: NO RECEIVED AND/OR REVIEWED: LOCATION AND SITING:** PLAT R649-2-3. Unit: GMBU (GRRV) Bond: FEDERAL - WYB000493 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 **Drilling Unit** Board Cause No: Cause 213-11 Water Permit: 437478 **Effective Date:** 11/30/2009 **RDCC Review:** Siting: Suspends General Siting **Fee Surface Agreement Intent to Commingle** ✓ R649-3-11. Directional Drill **Commingling Approved**

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason

15 - Directional - dmason 27 - Other - bhill

API Well No: 43013504990000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Greater Monument Butte G-18-9-17

API Well Number: 43013504990000 Lease Number: UTU-72106 Surface Owner: FEDERAL Approval Date: 12/6/2010

Issued to:

NEWFIELD PRODUCTION COMPANY, Rt 3 Box 3630, Myton, UT 84052

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://oilgas.ogm.utah.gov

API Well No: 43013504990000

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	APPRO	VED
OMB N	lo. 1004-	0137
Expires	July 31,	2010

5. Lease Serial No. UTU-72106

6. If Indian, Allotee or Tribe Name

APPLICATION FOR PERMIT TO	DRILL OR REENTER		NA		
la. Type of work: DRILL REEN	7 If Unit or CA Agreeme Greater Monument				
lb. Type of Well: Oil Well Gas Well Other		Lease Name and Well No. Greater Monument Butte G-18-9-17			
2. Name of Operator Newfield Production Company			9. API Well No. 43 613 5	50499	
3a. Address Route #3 Box 3630, Myton UT 84052	Route #3 Box 3630, Myton UT 84052 3b. Phone No. (include area code) (435) 646-3721				
 Location of Well (Report location clearly and in accordance with a At surface (LOT #2) SW/NW 1947' FNL 693' FWL At proposed prod. zone NE/NW 984' FNL 1588' FWL Set 	Sec. 18, T9S R17E (UTU-7		11. Sec., T. R. M. or Bik.a: Sec. 18, T9S R17E	•	
Distance in miles and direction from nearest town or post office* Approximately 16.8 miles southeast of Myton, UT			12. County or Parish Duchesne	13. State UT	
5. Distance from proposed* location to nearest property or lease line, ft. Approx. 1052' f/lse, NA' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 1,188.92	17. Spacia	ng Unit dedicated to this well 20 Acres		
8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 764'	19. Proposed Depth 6, 168'	i . \	BIA Bond No. on file NYB000493		
1. Elevations (Show whether DF, KDB, RT, GL, etc.) 5467' GL	22. Approximate date work wil		23. Estimated duration (7) days from SPUD t	o rig release	
	24. Attachments				
he following, completed in accordance with the requirements of Onsh. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	4. Bond to cov Item 20 abov 5. Operator cer	er the operation	ons unless covered by an existence or an exist	y be required by the	
ide lamble Crain	Mandle Crozier			1/24/10	
Regulatory Specialist pproved by (Signature) Menorsh	Name (Printed/Typed)	enczka	Dat	"MAY 0 2 201	
tide Assistant Field Manager Lands & Mineral Resources pplication approval does not warrant or certify that the applicant holonduct operations thereon. onditions of approval, if any, are attached ONIDIT	VERNAL FIE	LD OFFI	CE	e the applicant to	
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a tates any false, fictitious or fraudulent statements or representations as	crime for any person knowingly as to any matter within its jurisdiction	nd willfully to r	nake to any department or ag	ency of the United	

(Continued on page 2)

*(Instructions on page 2)

UDOGM

MAY 0 4 2011 PECEIVED

DIV. OF OIL, GAS & MINING

NOV 2 9 2010

NOTICE OF APPROVAL

BLM VERNAL, UTAH



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

VERNAL, UT 84078

(435) 781-440



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Newfield Production Company	Location:	Lot 2, Sec. 18, T9S, R17E (S)
			NENW, Sec. 18, T8S, R16E (B)
Well No:	Greater Monument Butte G-18-9-17	Lease No:	UTU-72106
API No:	43-013-50499	Agreement:	Greater Monument Butte Unit

OFFICE NUMBER:

170 South 500 East

(435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	: -	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <u>ut_vn_opreport@blm.gov</u> .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: GMB G-18-9-17 5/3/2011

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

CONDITIONS OF APPROVAL:

- Construction and drilling is not allowed from May 1st June 15th to minimize impacts during Mountain plover nesting.
- Construction and drilling is not allowed from March 1 August 31 to minimize impacts during burrowing owl nesting.
- If it is anticipated that construction or drilling will occur during the given timing restrictions, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted by the BLM authorized officer.
 - White-tailed prairie dog burrows and animals will be recorded/mapped while conducting (to protocol) burrowing owl surveys
 - o Mountain plover surveys will be conducted to protocol by a professional environmental consulting firm biologist prior to any ground disturbing activities. Reports from survey results must be reviewed by a BLM minerals biologist prior to proceeding with the project.
 - o Prior to any surface disturbing activities between March 1st and August 31st, a BLM biologist or a BLM-approved contractor will survey all areas during April or May within a range of a half-mile from proposed surface disturbances for active raptor nests. If occupied/active raptor nests are found, construction will not occur during the nesting season for that species within its species-specific buffer.
- The reclamation seed mix will incorporate low growing grasses and not crested wheatgrass since this negatively impacts mountain plover habitat.
- Hospital mufflers will be installed on new and existing pump jacks at the host well locations.

• Screening will be placed on stacks and on other openings of heater-treaters or fired vessels to prevent entry by migratory birds.

Reclamation

- Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM.
- Appropriate erosion control and re-vegetation measures will be employed. In areas with unstable soils where seeding alone may not adequately control erosion, grading will be used to minimize slopes and water bars will be installed on disturbed slopes. Erosion control efforts will be monitored by Newfield and, if necessary, modifications will be made to control erosion.

Seed Mix (Interim and Final Reclamation)

Common Name	Latin Name	Pure Live Seed (lbs/acre)	Seed Planting Depth
Squirreltail grass	Elymus elymoides	2.0	1/4 - 1/2"
Needle and thread grass	Hesperostipa comata	2.0	1/2"
Siberian Wheatgrass	Agropyron fragile	2.0	1/2"
Shadscale saltbush	Atriplex confertifolia	2.0	1/2"
Four-wing saltbush	Atriplex canescens	2.0	1/2"
Gardner's saltbush	Atriplex gardneri	2.0	1/2"
Blue flax (Lewis flax)	Linum lewisii	1.0	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

Monitoring and Reporting

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) three (3) growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

Page 4 of 7 Well: GMB G-18-9-17 5/3/2011

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

• Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with lease terms, Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the authorized officer.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.

Page 5 of 7 Well: GMB G-18-9-17 5/3/2011

• The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or work-over program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: GMB G-18-9-17 5/3/2011

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (1/41/4, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

Page 7 of 7 Well: GMB G-18-9-17 5/3/2011

• All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval of
 the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 26 Submitted Branden Arnold Phone Number 435-401-0223 Well Name/Number GMB G-18-9-17 Qtr/Qtr SW/NW Section 18 Township 9S Range 17E Lease Serial Number UTU-72106 API Number 43-013-50499
<u>Spud Notice</u> – Spud is the initial spudding of the well, not drilling out below a casing string.
Date/Time <u>7/1/11</u> <u>9:00</u> AM ⊠ PM □
 Casing – Please report time casing run starts, not cementing times. Surface Casing Intermediate Casing Production Casing Liner Other
Date/Time <u>7/1/11</u> <u>3:00</u> AM ☐ PM ⊠
BOPE Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other Date/Time AM PM
Remarks

FORM 3160-5
(August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: July 31,2010

I. Type of Well ☐ Oil Well ☐ Gas Wel! ☐ Other	6. If Indian, Allottee or Tribe Name. 7. If Unit or CA/Agreement, Name and/or GMBU 8. Well Name and No.
2. Name of Operator	GRTR MON BUTTE G-18-9-17
NEWFIELD PRODUCTION COMPANY 3a. Address Route 3 Box 3630 3b. Phone (include are code) Myton, UT 84052 435.646.3721 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	9. API Well No. 4301350499 10. Field and Pool, or Exploratory Area GREATER MB UNIT
1941 FNL 0693 FWL Section 18 T9S R17E	11. County or Parish, State DUCHESNE, UT
12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE (OF NOTICE, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF AC	NON
Notice of Intent Alter Casing Fracture Treat Casing Repair New Construction Rec Change Plans Plug & Abandon Ter	duction (Start/Resume) Clamation Well Integrity Complete Imporarily Abandon Spud Notice Water Shut-Off Well Integrity Other Spud Notice
3. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent re of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3 Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and inspection.) On 7/5/11 MIRU Ross #29. Spud well @9:00 AM. Drill 315' of 12 1/4" hole with air n @ 317.52. On 7/6/11 cement with 160 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Ce yield. Returned 5 barrels cement to pit. WOC.	depths of all pertinent markers and zones. Attach the eports shall be filed within 30 days following completion 8160-4 shall be filed once testing has been completed, the operator has determined that the site is ready for final nist. TIH W/ 7 Jt's 8 5/8" J-55 24# csqn. Set

I hereby certify that the foregoing is true and correct (Printed/ Typed) Branden Arnold	Title	
Signature R A A A	Date 07/06/2011	
THIS SPACE FOR FEI	ERAL OR STATE OFFICE USE	
Approved by Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title Office	Date
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any patters any false, fictitious and fraudulent statements or representations as to any matter w	rson knowingly and willfully to make to any depa thin its jurisdiction	rtment or agency of the United RECEIVED
(Instructions on page 2)		JUL 1 2 2011
		Dan a se

NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

			8 5/8"	_CASING SET	AT	317.52	-		
LAST CASING			Γ7	<u>′</u>				Exploration	Company
DATUM					_	GMBU G			
DATUM TO CUT				_		-	Monumer		
DATUM TO BRA				_	CONTRAC	TOR & RIC	3 <u>#</u>	Ross # 29	
TD DRILLER			GER				<u>-</u>		
HOLE SIZE	12 1/4"	1		_					
LOG OF CASING	G STRING:								
PIECES	OD	ITEM - N	MAKE - DES	CRIPTION	WT/FT	GRD	THREAD	CONDT	LENGTH
1		wellhead						A	1.42
7	8 5/8"	casing (sh	noe jt 44.90)	,	24	J-55	STC	A	305.2
1	8 5/8"	guide shoe						Α	0.9
									
									-
CASING INVENT	ORY BAL.		FEET	JTS	TOTAL LEN	VGTH OF S	TRING		307.52
TOTAL LENGTH	OF STRING	G	307.52	7	LESS CUT	OFF PIEC	E		2
LESS NON CSG.			2.32		PLUS DATI	UM TO T/C	UT OFF CS	G	12
PLUS FULL JTS.	. LEFT OUT		0		CASING SE				317.52
	TOTAL		305.2	7	٦			•	
TOTAL CSG. DEL	L. (W/O TH	RDS)				RE			
T	ΓIMING				7				
BEGIN RUN CSG	3 .	Spud	9:00 AM	7/5/2011	GOOD CIR	C THRU JO	OB \	Yes	
CSG. IN HOLE			2:00 AM	7/5/2011	 1		URFACE		
BEGIN CIRC			12:42 PM	7/6/2011	RECIPROC				
BEGIN PUMP CM			1:01 PM	7/6/2011	7				
BEGIN DSPL. CM	ЛT		1:10 PM	7/6/2011	BUMPED P	LUG TO	520		

1:11 PM

7/6/2011

PLUG DOWN

CEMENT USED		CEMENT COMPANY- B	J
STAGE	# SX	CEMENT TYPE & ADDITIVES	
1	160	Class "G"+2%CaCl Mixed@ 15.8ppg W/1.17 yield returned 5bbls to	o pit
			···
			1
	ļ		

CENTRALIZED	CODATO	IED DI ACEMENT	IOM MAKE & CDACING
		•	IOW MAKE & SPACING
ivildule of first, t	op or seco	nd and third for a total of three.	
COMPANY REP	RESENTAT	IVE Branden Arnold	DATE 7/6/2011

OPERATOR: NEWFIELD PRODUCTION COMPANY ADDRESS: RT. 3 BOX 3630

OPERATOR ACCT. NO.

N2695

MYTON, UT 84052

ACTION	CHIDDENT	A)CT									
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	GG	sc	WELL	OCATION I RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A WELL 1.C	99999 OMMENTS:	18/20	4304751498	RIO GRANDE 16-13-4-1W	SESE	13	45	1W	UINTAH	6/24/2011	7/31/11
	GRRV				İ			·	CUNEIL)ENTIAL	
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME			LL LOCAT	ION	VONL	ALIVER SPUD	EFFECTIVE
В	99999	17400	4301350656	GMBU P-32-8-17	swsw	32	_{тр} 8S	17E	DUCHESNE	6/23/2011	7/31/11
	GRRV			BHL=SWSW					- OTTE		1401/11
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	ua i	SC I	WELL L	OCATION RG	COUNTY	SPUD DATE	EFFECTIVE
В	99999	17400	4301350494	GMBU K-17-9-17	NWSW	16	98		DUCHESNE	6/30/2011	7/2///
	GRRU			BHC = Sec 17	SEI	NE				A manufacture des serviciones	1.7.57.7
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QQ	sc	WELL L	OCATION RG	COUNTY	SPUD	EFFECTIVE
В	99999	17400	4301350471	GMBU O-11-9-16	NESE	10	98		DUCHESNE	6/29/2011	7/81/11
ACTION	GRV CURRENT	NEW		BAL = Sec 11	Nu	150	W			43,	
CODE	ENTITY NO.	ENTITY NO.	API NUMBER	WELL NAME	00	SC	WELL L	OCATION RG	COUNTY	SPUD DATE	EFFECTIVE DATE
В	99999	17400	4301350543	GMBU Y-11-9-16	SESE	10	98	16E	DUCHESNE	6/27/2011	7/31/11
	GRRV			BHL = Sec	11 Su	JS	ω			an agranda and an agranda and agranda a	1.70117
CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	ga T	sc	WELL LO	OCATION		SPUD	EFFECTIVE
В	99999	17400	4301350499	GMBU G-18-9-17	SWNW	18	98	17E	DUCHESNE	7/5/2011	7/3///
	nerel			BHL=NEN	IW				1	and the second s	1,01,1
A-14 B-14 C-16 D-18	DES (See instructions on back ow ontity for now well (single v oil to existing ontity (group or u m one existing entity to anothe hil from one existing entity to a or (explain in comments section	roli only) init woll) ir oxisting onlity new onlity		RECEIVED JUL 07 2011	-		***************************************	-	signature /		Jentri Park

Sundry Number: 17561 API Well Number: 43013504990000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9
	DIVISION OF OIL, GAS, AND MINI	NG	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-72106
SUNDF	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	sals to drill new wells, significantly deepen ex agged wells, or to drill horizontal laterals. Use		7.UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: GREATER MON BUTTE G-18-9-17
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COM	IPANY		9. API NUMBER: 43013504990000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84		NUMBER:	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1947 FNL 0693 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHI	IP, RANGE, MERIDIAN: 3 Township: 09.0S Range: 17.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION OMPLETED OPERATIONS. Clearly show all pertines of the completed on 08/09/2011. Attacks status report.	ched is a daily completion A Oi	
NAME (PLEASE PRINT) Jennifer Peatross	PHONE NUMBER	TITLE Production Technician	
SIGNATURE N/A	435 646-4885	DATE 8/12/2011	

Summary Rig Activityndry Number: 17561 API Well Number: 43013504990000

Page 1 of 2

Daily Activity Report

Format For Sundry
GMBU G-18-9-17
6/1/2011 To 10/30/2011

7/28/2011 Day: 1

Completion

Rigless on 7/28/2011 - Run CBL & perforate stg #1. - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6057' & cement top @ 80'. Perforate stage #1, A3 sds @ (5204'-05') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. A3 sds @ (5200'-01') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. A3 sds @ (5182'-83') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. A3 sds @ (5173'-74') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. A1 sds @ (5122'-24') w/ 3 1/8" Port plug guns (11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 6 shots. RD H/O truck & The Perforators WLT & mast. Wait on frac crew EWTR 144 BBLS

Daily Cost: \$0

Cumulative Cost: \$17,628

7/29/2011 Day: 2

Completion

Rigless on 7/29/2011 - Frac & flow well. - RU PSI. Set CBP & perf D2 sds as shown in perforation report. RU Baker Hughes. Frac D2 sds as shown in stimulation report. 1282 BWTR. - RU PSI. Set CBP & perf PB10 sds as shown in perforation report. RU Baker Hughes. Frac PB10 sds as shown in stimulation report. 1667 BWTR. - RU Baker Hughes. Frac A3/A1 sds as shown in stimulation report. 858 BWTR. - RU PSI. Set CBP & perf GB6 sds as shown in perforation report. RU Baker Hughes. Frac GB6 sds as shown in stimulation report. 2019 BWTR. RD Baker Hughes & PSI wireline. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 3.5 hrs & died. Recovered 440 bbls. SIWFN. 1579 BWTR.

Daily Cost: \$0

Cumulative Cost: \$125,720

8/5/2011 Day: 3

Completion

WWS #3 on 8/5/2011 - Drilling out plugs - LOAM from GMB N-18 to G-18 MIRU chk pressure on well 100 psi. ND camron BOPS nu 5000 # BOPs RU Floor & tbg works unload tdg PU & Talley used 4 3/4 chomp bit & tbg TIH tag fill @ 4114. RU Nabors Power swivel clean cut 146 of fill to plug @ 4260 drill out plug 21 min cont. pu & TIH tag fill @ 4455 @ clean out 15' of fill to Plug @ 4470 drill out plug 19 min cont PU & TIH tag fill @ 4671 POOH to 4632 circ well clean swin @ 18:00

Daily Cost: \$0

Cumulative Cost: \$131,475

8/9/2011 Day: 4

Completion

WWS #3 on 8/9/2011 - DU CBP. C/O to PBTD. Swab. - Cont. RIH w/ tbg. Tag fill @ 4671'. C/O to CBP @ 4840'. DU CBP in 20 min. Cont. RIH w/ tbg. Tag fill @ 5923'. C/O to PBTD @ 6090'. Circulate well clean. Pull up to 5990'. RIH w/ swab. SFL @ surface. Made 16 runs.

Recovered 145 bbls. Trace of oil. EFL @ 2100'. SWIFN. - Cont. RIH w/ tbg. Tag fill @ 4671'. C/O to CBP @ 4840'. DU CBP in 20 min. Cont. RIH w/ tbg. Tag fill @ 5923'. C/O to PBTD @ 6090'. Circulate well clean. Pull up to 5990'. RIH w/ swab. SFL @ surface. Made 16 runs. Recovered 145 bbls. Trace of oil. EFL @ 2100'. SWIFN. - SICP @ 300 psi, SITP @ 100 psi. Bleed off well. RIH w/ tbg. Tag PBTD @ 6090' (no new fill). LD extra tbg. POOH w/ tbg. LD BHA. RIH w/ production tbg. ND BOP. Set TAC @ 5138' w/ 18,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. RIH w/ rod string. Seat pump. RU pumping unit. Hang off rods. Fill tbg. w/ 3 bbls water. Stroke test to 800 psi. Good pump action. RD. PWOP @ 5:30 p.m. 144" stroke length, 5 spm. Final Report. 1350 BWTR. - SICP @ 300 psi, SITP @ 100 psi. Bleed off well. RIH w/ tbg. Tag PBTD @ 6090' (no new fill). LD extra tbg. POOH w/ tbg. LD BHA. RIH w/ production tbg. ND BOP. Set TAC @ 5138' w/ 18,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. RIH w/ rod string. Seat pump. RU pumping unit. Hang off rods. Fill tbg. w/ 3 bbls water. Stroke test to 800 psi. Good pump action. RD. PWOP @ 5:30 p.m. 144" stroke length, 5 spm. Final Report. 1350 BWTR.

Finalized
Daily Cost: \$0

Cumulative Cost: \$183,210

Pertinent Files: Go to File List

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 Expires: July 31, 2010

5. Lease Serial No.

WELL	COMPI	ETION	OR REC	COMPLET	ION REF	ORT	AND	LOG
VVCLL			UNINL	JUINFELLI			A110	_~~

													010-72	100		
la. Type of	Well	V 0	il Well	Gas W	ell Dry		Other	D;#	Paour				6. If India	an, Allottee or	Tribe	Name
b. Type of	Completion		ew Well ther:	work 0	over Deep	ÇN L	nug Dack I	ווע ייי	. Nesvi.,				GMBU	CA Agreemer		ne and No.
2. Name of NEWFIEL	Operator D EXPLO	RATION	N COMPA	ANY		,,, , 10 00.								Name and Wel 3-18-9-17	l No.	
3. Address				/ER, CO 802				Phone 1 35) 646		ude ar	ea code)		9. AFI W			
4. Location					ccordance with	Federal			-0121				10. Field	and Pool or Ex		tory
At curfac	e 404715	NII 9 66	201 E.W. (CLAL/AILA/\	SEC. 18, T9S	D47E	/UTU 721	06)					11 Sec	IENT BUTTE T., R., M., on I	Block	and
At surfac	~ 1947 F	NL & OS	93 FVVL (OVV/INVV)	SEC. 10, 193), K 1 / E	(010-721	00)					Surve	y or Area SEC	. 18, T	9S, R17E
At top pro	od. interval	reported	below 13	49' FNL &	1231' FWL (NW/NW	/) SEC. 18	, T9S, I	R17E (l	UTU-7	'2106)			ty or Parish		13. State
At total d	enth 980'	FNL & 1	1567' FW	L (NE/NW	/) SEC. 18, T	9S, R17	'E (UTU-72	2106) \	ıda	bu	1451	<u></u>	DUCHE			UT
14. Date Sp 07/05/201	udded		15. E	Pate T.D. Re 9/2011	eached		16. Da	ite Comp D & A	oleted 0	8/05/2	2011			tions (DF, RK _ 5479' KB	B, R	ſ, GL)*
18. Total D	epth: MD	6147	ri). Plug Back T.		D 6090'					ige Plug S				
21. Type E	lectric & Oth	D 5983 her Mecha	anical Logs	Run (Subm	nit copy of each)	BH	v 50	128			Vas well		Z No	Yes (Subm		
DUAL IND	GRD, SF	, COM	P. DENS	ITY,COMI	P. NEUTRON	,GR,CA	LIPER, CI	MT BO	ND		Vas DST Directiona			Yes (Subm Yes (Subm		
23. Casing						(MD)	Stage Cer	nenter		of Sks		Slurry V		ement Top*		Amount Pulled
Hole Size	Size/Gr		Wt. (#/ft.) 4#	Top (M	315'	ı (MD)	Dept	th	Туре 160 С	of Cer	- $ -$	(BBL)		CHOIR TOP	_	
12-1/4" 7-7/8"	8-5/8" J- 5-1/2" J-			0	6137'				275 P		-		80'			
									400 50	0/50 F	oz				_	
															-	
								_								
24. Tubing				n 1/2 m		,	D 4 04	(MD)	Daglion	Donth (MD	Size		epth Set (MD)		Packer Depth (MD)
Size 2-7/8"		Set (MD) 2 5274'	TA @ 5	r Depth (MI 5140'	O) Siz	<u>e</u>	Depth Set	(MD)	Packer	Depui	MD)	3126		epui set (MD)	士	Tacker Depth (MD)
25. Produci	ng Intervals				Dott			oration l			Si	ze	No. Holes		Per	f. Status
A) Green	Formation River	<u>a</u>	41	Top 68'	5205'	<u> </u>	5122-520		ici vai		.36"		21			
B)							4168-475	6'			.34"	4	8			
C)														_		
D) 27. Acid, F	racture. Tre	atment, C	Cement Squ	ieeze, etc.												
	Depth Inter				240#- 00/40		1204 bblo		Amount							
4168-5205	5'		Fra	ac w/ 2033	348#s 20/40 s	sand in	1394 DDIS	or Ligh	ining i	/ IIulu	111450	ges.				· · · · · · · · · · · · · · · · · · ·
20 D 1		1 4												-		
28. Product Date First		Hours	Test	Oil	Gas			Oil Grav		Ga			tion Metho		114.0	Duman
Produced		Tested	Produc	_	MCF	BE		Corr. Al	ΡΙ	Gr	avity	2-1/2	" x 1-3/4"	x 20' x 24' R	HAC	Pump
8/9/11 Choke	8/19/11 Tbg. Press.	24 Csg.	24 Hr.	Oil	Gas	28 W		Gas/Oil		W	ell Status	<u> </u>				
Size		Press.	Rate	BBL	MCF	BE	BL	Ratio		P	RODU	CING				
28a. Produc	tion - Interv	/al B						L								
Date First Produced		Hours Tested	Test Produc	Oil tion BBL	Gas MCF	Wa BE		Oil Grav Corr. Al		Ga Gr	s avity	Produc	tion Metho	d		
. 1044004				>							-			-		`
Choke	Tbg. Press.		24 Hr.	Oil	Gas		ater	Gas/Oil		W	ell Statu	3		H		EIVED
Size	Flwg. SI	Press.	Rate	▶ BBL	MCF	BE)L	Ratio						1	DEC	0 1 2011
	L	l								I						<u> </u>

		- 10								
	uction - Inte Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced	Test Butt	Tested	Production	BBL	MCF	BBL	Corr. API	Gravity		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		
28c. Prod	uction - Inte	l rval D		<u>.l</u>						
		Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		
29. Dispos	sition of Gas	Solid, us	ed for fuel, ve	nted, etc.)			L			
USED FOR	RFUEL									
30. Sumn	nary of Poro	us Zones	(Include Aqui	fers):	_			31. Format	ion (Log) Markers	
Show a includi	ng depth inte	zones of perval teste	porosity and co d, cushion use	ontents the	ereof: Cored i	ntervals and alling and shut-in	l drill-stem tests, pressures and	GEOLOG	IICAL MARKERS	
									Nama	Тор
Forr	nation	Тор	Bottom		Desc	riptions, Conte	ents, etc.		Name	Meas. Depth
GREEN RIV	/ER	4168'	5205'					GARDEN GU GARDEN GU		3613' 3823'
								GARDEN GU POINT 3	JLCH 2	3944' 4206'
								X MRKR Y MRKR		4476' 4513'
								DOUGLAS O		4644' 4893'
								B LIMESTON CASTLE PE		5013' 5517'
								BASAL CARI WASATCH	BONATE	5972' 6106'
32. Additi	ional remark	s (include	plugging proc	edure):						
33. Indica	te which iter	ns have be	een attached by	y placing	a check in the	appropriate bo	oxes:			
Elec	trical/Mecha	nical Logs	(1 full set req'o	ł.)		Geologic Repor	rt 🗖 DST R	Report	Directional Survey	
Sun	dry Notice for	r plugging	and cement ve	rification		Core Analysis		Drilling Daily		
					mation is con	plete and corre			records (see attached instructions	3)*
	ame (please gnature	Pla Je	nnifer Peatro	oss			Title Production Date 10/06/20	on Technician 11		
Title 18 U.	S.C. Section	+1001 and	Title 43 U.S.	C. Section	121 2, make i	t a crime for ar	ny person knowingly	y and willfully to	make to any department or ager	ncy of the United States any
iaise, nent	ious or Iradic	iaioni State	rineins of 1cht	oscinatioi	was to ally illi	THE THEFT IS	janioaiviivii.			

(Continued on page 3) (Form 3160-4, page 2)



NEWFIELD EXPLORATION

USGS Myton SW (UT) SECTION 18 T9S R17E G-18-9-17

Wellbore #1

Design: Actual

Standard Survey Report

19 July, 2011





Survey Report



Company: Project:

NEWFIELD EXPLORATION

USGS Myton SW (UT)

Site: Well: SECTION 18 T9S R17E G-18-9-17

Wellbore: Design:

Wellbore #1 Actual

Local Co-ordinate Reference:

Well G-18-9-17 G-18-9-17 @ 5479.0ft (Newfield Rig #3)

TVD Reference: **MD** Reference:

G-18-9-17 @ 5479.0ft (Newfield Rig #3)

North Reference:

Survey Calculation Method:

Minimum Curvature

EDM 2003.21 Single User Db

Project

USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

Map System:

US State Plane 1983

System Datum:

Mean Sea Level

Geo Datum:

Site

North American Datum 1983

Map Zone:

Utah Central Zone

SECTION 18 T9S R17E

Site Position:

Northing:

7,183,900.00 ft

Latitude:

40° 1' 56 921 N

From:

Мар

Easting:

2,049,800.00ft

Longitude:

110° 2' 16.332 W

Position Uncertainty:

0 0 ft

Slot Radius:

Grid Convergence:

0.94°

Well

G-18-9-17, SHL LAT: 40° 01' 57.92, LONG: -110° 03' 21.12

Well Position

+N/-S +F/-W 0.0 ft 0.0 ft Northing: Easting:

7.183,919.20 ft 2.044.759.94 ft

11.41

Latitude: Longitude:

40° 1' 57.920 N 110° 3' 21.120 W

Position Uncertainty

0.0 ft

IGRF2010

Wellhead Elevation:

5,479.0 ft

Ground Level:

5,467.0 ft

52,341

Wellbore

Wellbore #1

Magnetics

Model Name

Sample Date

2010/09/07

Declination (°)

Dip Angle (°)

Field Strength

(nT)

Design Actual

Audit Notes:

1.0

2011/07/19

ACTUAL

Tie On Depth:

0.0

65.81

Version: **Vertical Section:**

Phase: Depth From (TVD)

(ft) 0.0 +N/-S (ft) 0.0

+E/-W (ft) 0.0

Direction (°) 41.86

Survey Program

2.11

56.67

667.0

From (ft)

331.0

667.0

To (ft)

Survey (Wellbore)

Tool Name

Description MWD - Standard

2.48

2.42

-18.00

6,147.0 Survey #1 (Wellbore #1)

MWD

Survey Build Turn Dogleg Measured Vertical Vertical Depth Section Rate Rate Rate +FI.M Depth +N/-S Inclination Azimuth (°/100ft) (°/100ft) (°/100ft) (ft) (ft) (°) (ft) (ft) (ft) (°) 0.00 0.00 0.0 0.00 0.0 0.0 0.0 0.00 0.00 0.0 0.00 0.09 0.09 331.0 0.31 51.44 331.0 0.6 0.7 0.9 13.93 0.44 0.43 55.62 361.0 0.7 0.9 1.1 361.0 0.44 0.00 0.30 -0.30 0.35 55.62 391.0 0.8 1.0 1.3 391.0 0.34 -0.29 33.45 1.4 422.0 0.26 65.99 422 0 0.9 12 0.58 -9 94 0.44 62.91 453.0 1.0 1.3 1.6 0.58 453.0 -0.43 -87.00 1.8 0.70 483 N 483.0 0.31 36.81 1.1 1.5 0.29 115.81 0.76 2.0 514.0 0.40 72.71 514.0 1.2 1.6 -66.87 544.0 0.46 52.65 544.0 1.3 1.8 2.2 0.54 0.20 2.4 0.33 -0.19 -35.35 2.0 0.40 41.69 575.0 1.4 575.0 57.87 2.3 2.8 2.00 1.90 605.0 0.97 59.05 605.0 1.6 1.27 1.26 10.32 636.0 2.9 3.4 62.25 1.9 636.0 1.36

3.7

42

2.4



Survey Report

MALLONE

Company: Project:

NEWFIELD EXPLORATION

Site:

USGS Myton SW (UT) SECTION 18 T9S R17E

Well: Wellbore:

Design:

G-18-9-17 Wellbore #1 Actual

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well G-18-9-17

G-18-9-17 @ 5479.0ft (Newfield Rig #3)

G-18-9-17 @ 5479.0ft (Newfield Rig #3)

Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Tuen
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
697.0	2,46	56.62	696.9	3.1	4.7	5.4	1.17	1.17	-0.17
729.0	2.86	48.85	728.9	4.0	5.8	6.9	1.68	1.25	-24.28
				E 1	6.8	8.4	2.41	0.57	-45.77
759.0	3.03	35.12	758.9	5.1 6.5	7.9	10.1	1.62	1.57	7.23
789.0	3.50	37.29	788.8 819.8	8.1	7.9 9.1	12.1	1.58	1.58	1.65
820.0 850.0	3.99 4.39	37.80 40.08	849.7	9.8	10.5	14.3	1.44	1.33	7.60
881.0	4.66	41.34	880.6	11.7	12.1	16.7	0.93	0.87	4.06
									3.03
911.0	4.97	42.25	910.5	13.6	13.7	19.3	1.06	1.03 0.42	3.03 2.42
942.0	5.10	43.00	941.4	15.6	15.6	22.0	0.47 1.00	0.42	4.55
975.0	5.40	44.50	974.2	17.7	17.7 19.9	25.0 28.1	2.55	2.26	11.94
1,006.0	6.10	48.20	1,005.1	19.9 22.8	23.2	32.5	1.28	1.25	-2.50
1,046.0	6.60	47.20	1,044.8						
1,068.0	7.20	48.10	1,066.7	24.6	25.2	35.1	2.77	2.73	4.09
1,100.0	7.70	47.10	1,098.4	27.4	28.2	39.3	1.61	1.56	-3.13
1,132.0	8.30	47.80	1,130.1	30.4	31.5	43.7	1.90	1.88	2.19
1,163.0	8.90	47.30	1,160.7	33.6	34.9	48.3	1.95	1.94	-1.61
1,194.0	9.50	46.20	1,191.3	37.0	38.5	53.2	2.02	1.94	-3.55
1,227.0	10.00	44.40	1,223.8	40.9	42.5	58.8	1.77	1.52	-5.45
1,257.0	10.50	42.40	1,253.4	44.8	46.2	64.2	2.05	1.67	-6.67
1,289.0	10.90	40.60	1,284.8	49.2	50.1	70.1	1.63	1.25	-5.63
1,322.0	11.40	39.00	1,317.2	54.1	54.2	76.5	1.78	1.52	-4.85
1,384.0	12.20	41.50	1,377.9	63.8	62.4	89.1	1.53	1.29	4.03
1,412.0	12.60	41.40	1,405.2	68.3	66.4	95.2	1.43	1.43	-0.36
.,	12.90	42.50	1,439.4	74.0	71.5	102.9	1.10	0.86	3.14
1,447.0 1,478.0	13.10	42.30	1,469.6	79.2	76.2	109.8	0.66	0.65	-0.65
1,476.0	13.10	41.50	1,500.7	84.6	81.0	117.1	0.65	-0.31	-2.50
1,541.0	13.10	41.50	1,530.9	89.8	85.7	124.1	0.32	0.32	0.00
									3.75
1,573.0	13.30	42.70	1,562.1	95.2	90.6	131.4	1.06	0.63 0.65	3.75 8.06
1,604.0	13.50	45.20	1,592.3	100.4	95.6	138.6	1.98 0.73	0.65	2.81
1,636.0	13.60	46.10	1,623.4	105.7	100.9	146.0	2.06	1.94	-2.90
1,667.0	14.20	45.20	1,653.5	110.9	106.3	153.5 161.5	1.90	1.88	-1.25
1,699.0	14.80	44.80	1,684.4	116.5	111.9				
1,730.0	15.10	45.50	1,714.4	122.2	117.6	169.5	1.13	0.97	2.26
1,762.0	15.00	45.30	1,745.3	128.0	123.5	177.7	0.35	-0.31	-0.63
1,793.0	15.10	45.80	1,775.2	133.6	129.3	185.8	0.53	0.32	1.61
1,825.0	15.50	45.30	1,806.1	139.5	135.3	194.2	1.32	1.25	-1.56
1,856.0	16.00	43.90	1,835.9	145.5	141.2	202.6	2.03	1.61	-4.52
1,888.0	16.40	42.50	1,866.7	152.0	147.3	211.5	1.75	1.25	-4.38
1,919.0	16.50	40.50	1,896.4	158.6	153.1	220.3	1.86	0.32	-6.45
1,951.0	16.60	38.90	1,927.1	165.6	158.9	229.4	1.46	0.31	-5.00
1,982.0	16.40	38.50	1,956.8	172.5	164.4	238.2	0.74	-0.65	-1.29
2,014.0	16.10	38.20	1,987.5	179.5	170.0	247.2	0.97	-0.94	-0.94
	15.90	37.80	2,017.3	186.3	175.3	255.7	0.74	-0.65	-1.29
2,045.0 2,077.0	15.90 15.60	37.40	2,017.3	193.1	180.6	264.3	1.00	-0.94	-1.25
2,077.0	15.40	37.40 37.10	2,048.1	199.7	185.6	272.6	0.70	-0.65	-0.97
2,100.0	15.78	38.22	2,107.8	206.3	190.7	280.9	1.56	1.23	3.61
2,139.0	16.04	39.32	2,138.6	213.2	196.2	289.7	1.24	0.81	3.44
2,202.0	15.78	39.27	2,168.4	219.7	201.5	298.2	0.84	-0.84 0.13	-0.16
2,234.0	15.82	39.75	2,199.2	226.5	207.1	306.9	0.43	0.13	1.50
2,267.0	15.73	40.02	2,231.0	233.4	212.8	315.8	0.35	-0.27 - 0.55	0.82 0.84
2,298.0	15.56	40.28	2,260.8	239.7	218.2	324.2	0.59		0.84
2,330.0	15.29	40.37	2,291.7	246.2	223.7	332.7	0.85	-0.84	0.20
2,361.0	14.71	40.41	2,321.6	252.3	228.9	340.7	1.87	-1.87	0.13
2,392.0	14.68	39.97	2,351.6	258.4	234.0	348.6	0.37	-0.10	-1.42



Survey Report



Company: Project:

NEWFIELD EXPLORATION

Site:

USGS Myton SW (UT) SECTION 18 T9S R17E

Well:

G-18-9-17

Wellbore: Design:

Wellbore #1 Actual

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well G-18-9-17

G-18-9-17 @ 5479.0ft (Newfield Rig #3) G-18-9-17 @ 5479.0ft (Newfield Rig #3)

Minimum Curvature

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
2,423.0	14.37	39.32	2,381.6	264.3	239.0	356.3	1,13	-1.00	-2.10
2,455.0	13.79	39.54	2,412.6	270.4	243.9	364.1	1.82	-1.81	0.69
2,486.0	13.80	39.45	2,442.8	276.1	248.6	371.5	0.08	0.03	-0.29
•				281.8	253.4	378.9	0.77	0.42	2.68
2,517.0	13.93	40.28	2,472.9	287.7	253.4 258.5	386.8	0.92	-0.91	0.45
2,550.0	13.63	40.43	2,504.9	293.3	263.2	394.1	0.20	-0.16	0.52
2,581.0	13.58	40.59	2,535.0	293.3 298.7	267.9	401.3	2.09	1.90	3.67
2,611.0 2,643.0	14.15 14.98	41.69 43.72	2,564.2 2,595.1	304.6	273.4	409.3	3.04	2.59	6.34
2,675.0	15.34	43.93	2,626.0	310.7	279.2	417.7	1.14	1.13	0.66
2,706.0	15.69	43.62	2,655.9	316.6	284.9	426.0	1.16	1.13	-1.00
2,737.0	15,91	43.53	2,685.7	322.8	290.7	434.4	0.71	0.71	-0.29
2,768.0	16.08	44.06	2,715.5	328.9	296.7	442.9	0.72	0.55	1.71
2,800.0	15.35	43.40	2,746.3	335.2	302.6	451.6	2.35	-2.28	-2.06
2,831.0	14.90	41.64	2,776.2	341.1	308.1	459.7	2.07	-1.45	-5.68
2,862.0	14.72	40.81	2,806.2	347.1	313.3	467.6	0.90	-0.58	-2.68
2,893.0	15.12	40.68	2,836.2	353.1	318.5	475.6	1.29	1.29	-0.42
2,925.0	15.56	41.20	2,867.0	359.5	324.1	484.0	1.44	1.38	1.63
2,957.0	15.06	41.30	2,897.9	365.9	329.7	492.5	1.56	-1.56	0.31
									4.02
2,991.0	14.02	39.93	2,930.8	372.4	335.2	501.0	3.22	-3.06	-4.03
3,023.0	13.89	40.02	2,961.9	378.3	340.2	508.7	0.41	-0.41	0.28
3,054.0	14.24	41.64	2,991.9	384.0	345.1	516.3	1.70	1.13	5.23
3,085.0	14.63	43.18	3,022.0	389.7	350.3	524.0	1.77	1.26	4.97
3,117.0	15.03	44.28	3,052.9	395.6	356.0	532.2	1.53	1.25	3.44
3,148.0	15.71	45.34	3,082.8	401.4	361.8	540.4	2.37	2.19	3.42
3,179.0	15.34	45.78	3,112.6	407.2	367.7	548.7	1.25	-1.19	1.42
3,210.0	15.42	43.67	3,142.5	413.1	373.5	556.9	1.82	0.26	-6.81
3,244.0	15.51	41.83	3,175.3	419.7	379.6	565.9	1.47	0.26	-5.41
3,275.0	15.34	40.90	3,205.2	425.9	385.1	574.2	0.97	-0.55	-3.00
				400.0	200.4	500 4	0.32	0.19	-0.97
3,306.0	15.40	40.60	3,235.1	432.2 438.6	390.4 395.9	582.4 590.9	0.52	-0.31	-1.88
3,338.0	15.30	40.00	3,265.9			598.9	1.39	-1.29	-1.94
3,369.0	14.90	39.40	3,295.9	444.8	401.1		0.63	-0.63	0.31
3,401.0	14.70	39.50	3,326.8	451.1	406.3	607.1 616.0	0.58	0.57	0.29
3,436.0	14.90	39.60	3,360.6	458.0	412.0	010.0	0.56		
3,464.0	14.70	40.80	3,387.7	463.5	416.6	623.2	1.31	-0.71	4.29
3,495.0	14.90	41.70	3,417.7	469.4	421.8	631.1	0.98	0.65	2.90
3,527.0	15.30	42.80	3,448.6	475.6	427.4	639.4	1.54	1.25	3.44
3,558.0	15.60	42.70	3,478.5	481.7	433.0	647.7	0.97	0.97	-0.32
3,590.0	15.40	42.40	3,509.3	488.0	438.8	656.3	0.67	-0.63	-0.94
3,621.0	14.90	41.80	3,539.2	494.0	444.2	664.4	1.69	-1.61	-1.94
3,653.0	14.20	41.30	3,570.2	500.0	449.6	672.4	2.22	-2.19	-1.56
3,684.0	14.10	40.60	3,600.3	505.7	454.5	680.0	0.64	-0.32	-2.26
3,716.0	14.10	41.30	3,631.3	511.7	459.7	687.8	1.08	0.94	2.19
3,747.0	14.60	41.60	3,661.3	517.5	464.8	695.6	0.69	0.65	0.97
3,779.0	15.00	43.20	3,692.2	523.5	470.3	703.8	1.79	1.25	5.00
3,810.0	15.50	45.10	3,722.1	529.4	476.0	711.9	2.28	1.61	6.13
3,842.0	15.90	45.00	3,752.9	535.5	482.2	720.6	1.25	1.25	-0.31
3,873.0	16.10	44.00	3,782.7	541.6	488.1	729.1	1.10	0.65	-3.23
3,905.0	16.30	42.90	3,813.5	548.1	494.3	738.0	1.14	0.63	-3.44
3,936.0	16.30	41.80	3,843.2	554.5	500.1	746.7	1.00	0.00	-3.55
3,968.0	16.10	41.80	3,873.9	561.2	506.1	755.7	0.63	-0.63	0.00
3,999.0	15.60	41.40	3,903.8	567.5	511.7	764.1	1.65	-1.61	-1.29
4,031.0	15.10	40.70	3,934.6	573.9	517.3	772.6	1.67	-1.56	-2.19
4,062.0	14.85	40.70	3,964.6	580.0	522.5	780.6	0.82	-0.81	-0.48
4.002.0	14.00	40.33	5,504.0	500.0	342.3	. 00.0	0.02	0.01	V



Survey Report



Company:

NEWFIELD EXPLORATION

Project:

USGS Myton SW (UT)

Site: Well: SECTION 18 T9S R17E G-18-9-17

Wellbore: Design:

Wellbore #1 Actual

Local Co-ordinate Reference:

TVD Reference:

Well G-18-9-17

G-18-9-17 @ 5479.0ft (Newfield Rig #3) G-18-9-17 @ 5479.0ft (Newfield Rig #3)

MD Reference: North Reference:

Survey Calculation Method:

Minimum Curvature

Database:

urvey		er tom opposite Geografia							Particles
Measured Depth (ft)	inclination	Azimuth	Vertical Depth (ft)	+N/-S	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
(IL)	(°)	(°)	19	(ft)	(14)		, Samuel et	MES STEEDS	
4,126.0	14.59	41.03	4,026.5	592.2	533.0	796.8	0.48	0.13	1.84
4,157.0	14.68	41.95	4,056.5	598.1		804.6	0.80	0.29	2.97
4,188.0	14.69	42.32	4,086.5	603.9	543.5	812.5	0.30	0.03	1.19
4,220.0	14.91	43.08	4,117.4	609.9	549.0	820.6	0.92	0.69	2.38
4,251.0	14.77	43.01	4,147.4	615.7	554.4	828.6	0.46	-0.45	-0.23
4,283.0	14.33	41.86	4,178.4	621.7	559.9	836.6	1.64	-1.38	-3.59
4,314.0	13.93	40.42	4,208.4	627.4	564.9	844.2	1.72	-1.29	-4.65
4,345.0	13.21	40.28	4,238.6	632.9	569.6	851.5	2.32	-2.32	-0.45
4,376.0	13.84	41.51	4,268.7	638.4	574.3	858.7	2.23	2.03	3.97
							4.00	1.38	4.00
4,408.0	14.28	42.79	4,299.7	644.2	579.5	866.5	1.68		3.3 9
4,439.0	14.72	43.84	4,329.7	649.8	584.9	874.2	1.65	1.42	
4,470.0	14.24	44.24	4,359.8	655.4	590.2	882.0	1.58	-1.55 1.50	1.29
4,502.0	13.73	43.83	4,390.8	660.9	595.6	889.7	1.62	-1.59	-1.28 7.06
4,533.0	13.40	41.64	4,420.9	666.3	600.6	897.0	1.97	-1.06	-7.06
4,564.0	13.45	41.07	4,451.1	671.7	605.3	904.2	0.46	0.16	-1.84
4,596.0	13.58	41.42	4,482.2	677.3	610.2	911.7	0.48	0.41	1.09
4,630.0	13.80	41.95	4,515.2	683.3	615.6	919.7	0.74	0.65	1.56
4,661.0	14.20	43.60	4,545.3	688.8	620.7	927.2	1.82	1.29	5.32
4,693.0	14.50	44.30	4,576.3	694.5	626.2	935.1	1.08	0.94	2.19
									-0.65
4,724.0	14.60	44.10	4,606.3	700.1	631.6	942.9	0.36	0.32	
4,756.0	14.90	45.20	4,637.3	705.9	637.3	951.0	1.28	0.94	3.44
4,787.0	15.20	45.20	4,667.2	711.6	643.1	959.1	0.97	0.97	0.00
4,819.0	15.00	44.00	4,698.1	717.5	648.9	967.4	1.16	-0.63	-3.75
4,820.7	14.99	43.88	4,699.7	717.8	649.2	967.8	1.94	-0.68	-7.01
G-18-9-17 TG	T								
4,850.0	14.80	41.80	4,728.1	723.3	654.3	975.4	1.94	-0.64	-7.10
4,882.0	14.60	41.00	4,759.0	729.4	659.7	983.5	0.89	-0.63	-2.50
4,662.0 4,913.0	14.60	40.50	4,789.0	735.3	664.8	991.3	0.41	0.00	-1.61
4,945.0	14.80	40.90	4,820.0	741.5	670.1	999.4	0.70	0.63	1.25
	14.90	39.80	4,849.9	747.6	675.2	1,007.4	0.96	0.32	-3.55
4,976.0	14.50	39.60	4,043.3						
5,008.0	15.00	38.40	4,880.9	754.0	680.4	1,015.6	1.17	0.31	-4.38
5,039.0	15.30	38.80	4,910.8	760.3	685.5	1,023.7	1.02	0.97	1.29
5,071.0	15.30	38.00	4,941.6	766.9	690.7	1,032.1	0.66	0.00	-2.50
5,102.0	15.00	38.70	4,971.6	773.3	695.8	1,040.2	1.13	-0.97	2.26
5,134.0	14.90	39.40	5,002.5	779.7	701.0	1,048.5	0.65	-0.31	2.19
E 40E 0	15.30	40,30	5,032.4	785.9	706.2	1,056.5	1.50	1.29	2.90
5,165.0 5,197.0	15.30 15.70	40,30 39,80	5,032.4	792.4	711.7	1,065.1	1.32	1.25	-1.56
5,197.0 5,228.0	15.70	39.60 39.67	5,063.3	798.8	717.0	1,073.4	1.17	-1.16	-0.42
	14.28	39.67 38.44	5,093.1	805.0	721.9	1,081.3	3.57	-3.42	-3.97
5,259.0 5,259.0	13.93	39.05	5,123.1 5,155.1	811.2	727.0	1,089.3	1.15	-1.06	1.85
5,292.0	13.53	39.03							
5,323.0	13.62	42.61	5,185.2	816.8	731.8	1,096.7	2.91	-1.00	11.48
5,356.0	14.28	46.13	5,217.2	822.5	737.4	1,104.6	3.26	2.00	10.67
5,386.0	14.28	47.71	5,246.3	827.5	742.8	1,112.0	1.30	0.00	5.27
5,417.0	14.90	48.68	5,276.3	832.8	748.6	1,119.8	2.15	2.00	3.13
5,448.0	15.25	47.40	5,306.2	838.1	754.6	1,127.8	1.56	1.13	-4.13
5,480.0	14.77	45.64	5,337.1	843.8	760.6	1,136.0	2.07	-1.50	-5.50
		45.6 4 42.30	5,337.1 5,367.2	849.4	766.0	1,143.8	3.28	-1.87	-10.77
5,511.0 5,542.0	14.19		5,367.2 5,398.2	855.2	771.1	1,151.5	1.73	-1.22	-5.06
5,543.0	13.80	40.68 41.04	5,396.2 5,428.3	860.9	776.0	1,159.0	0.88	0.84	1.16
5,574.0	14.06		5,428.3 5,460.3	866.9	776.0 781.4	1,159.0	1.26	0.39	4.91
5,607.0	14.19	42.66							
5,639.0	14.11	42.22	5,491.3	872.6	786.6	1,174.9	0.42	-0.25	-1.38
5,670.0	14.15	42.39	5,521.4	878.2	791.7	1,182.4	0.19	0.13	0.55
5,701.0	14.38	42.49	5,551.4	883.9	796.9	1,190.1	0.75	0.74	0.32
5,732.0	14.72	43.18	5,581.4	889.6	802.2	1,197.8	1.23	1.10	2.23



Survey Report



Company: Project:

NEWFIELD EXPLORATION

Site:

USGS Myton SW (UT) SECTION 18 T9S R17E

Well: Wellbore:

Design:

G-18-9-17 Wellbore #1

Actual

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well G-18-9-17

G-18-9-17 @ 5479.0ft (Newfield Rig #3) G-18-9-17 @ 5479.0ft (Newfield Rig #3)

Minimum Curvature

								Build	Tuen
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
5,765.0	14.85	42.74	5,613.4	895.7	807.9	1,206.3	0.52	0.39	-1.33
5,796.0	14.99	42.83	5,643.3	901.6	813.4	1,214.2	0.46	0.45	0.29
5,827.0	14.60	41.30	5,673.3	907.5	818.7	1,222.2	1.78	-1.26	-4.94
5,859.0	14,40	40.90	5,704.3	913.5	823.9	1,230.2	0.70	-0.63	-1.25
5,890.0	14,50	40.00	5,734.3	919.4	828.9	1,237.9	0.79	0.32	-2.90
5,922.0	14.90	40.50	5,765.2	925.6	834.2	1,246.0	1.31	1.25	1.56
5,953.0	14.90	41.60	5,795.2	931.6	839.4	1,254.0	0.91	0.00	3.55
5,985.0	15.20	43.70	5,826.1	937.7	845.1	1,262.3	1.94	0.94	6.56
6,016.0	14.50	45.00	5,856.1	943.4	850.6	1,270.2	2.50	-2.26	4.19
6,048.0	14.60	44.70	5,887.0	949.1	856.3	1,278.3	0.39	0.31	-0.94
6,079.0	15.00	43.70	5,917.0	954.8	861.8	1,286.2	1.53	1.29	-3.23
6,095.0	14.60	42.90	5,932.5	957.7	864.6	1,290.3	2.81	-2.50	-5.00
6,147.0	14.60	42.90	5,982.8	967.3	873.5	1,303.4	0.00	0.00	0.00

G-18-9-17 TGT - actual wellpath mis - Circle (radius 75.0)		0.93 er by 4.6ft a	4,700.0 t 4820.7ft MC	720.2 (4699.7 TVD)	645.2), 717.8 N, 64	7,184,649.69 19.2 E)	2,045,393.47	40° 2' 5.037 N	110° 3 12.624 VV
Target Name - hit/miss target - Shape	່ຕັ້	Dip Dir. (°)	TVO (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude 110° 3' 12.824 W
Wellbore Targets									

Checked By:	Approved By:	Date:	



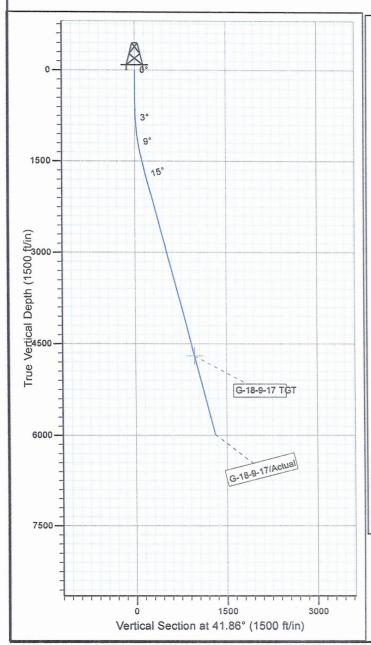
Well: G-18-9-17 Wellbore: Wellbore #1 SURVEY: Actual

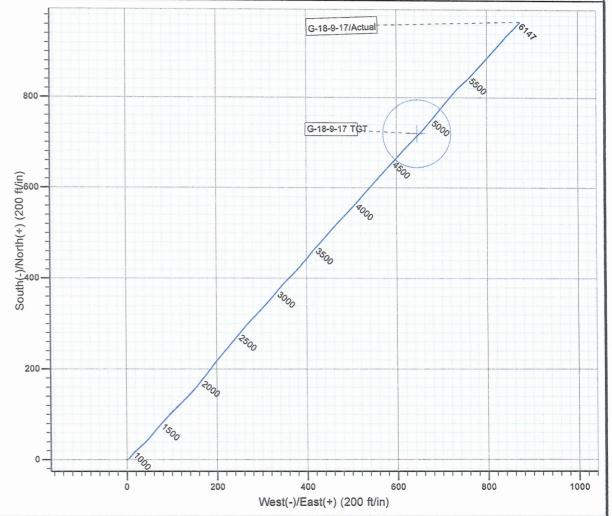
FINAL SURVEY REPORT



Azimuths to True North Magnetic North: 11.41°

Magnetic Field Strength: 52341.1snT Dip Angle: 65.81° Date: 2010/09/07 Model: IGRF2010







Design: Actual (G-18-9-17/Wellbore #1)

Created By: Larah Well Date: 21:24, July 19 2011 THIS SURVEY IS CORRECT TO THE BEST OF MY

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

Daily Activity Report

Format For Sundry GMBU G-18-9-17 4/1/2011 To 10/30/2011

GMBU G-18-9-17

Waiting on Cement

Date: 7/6/2011

Ross #29 at 315. Days Since Spud - yield. Returned 5bbls to pit, bump plug to 520psi, BLM and State were notified of spud via email. - On 7/5/11 Ross #29 spud and drilled 315' of 12 1/4" hole, P/U and run 7 jts of 8 5/8" casing set - 317.52'KB. On 7/6/11 cement w/BJ w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17

Daily Cost: \$0

Cumulative Cost: \$56,696

GMBU G-18-9-17

Drill 7 7/8" hole with fresh water

Date: 7/15/2011

NDSI #3 at 940. 1 Days Since Spud - P/U BHA as follows: Smith Mi616 PDC bit, Hunting 4.8 stage 7/8 lobe .33 res mud motor 26.84', Monel - good. Then the surface casinf to 1500 psi for 30 min. test good. BLM was present for test. - valve. Test the kill line and valve. Then the pipe rams and manifold. 2000 psi for ten min. all test - Pressure test upper kelly, safety valve, pipe rams, inside valve, outside valve, choke line and - MIRU Set all equipment (Skid rig from the N-18-9-17) - 7/13/2011 at 4:00 PM. - Inform State and BLM via email on 7/13/2011 of rig move on 7/14/2011 at 7:00 am and BOP test on - drill collar 30.10, gap sub 3.38', index sub 1.88', monel drill collar 30.35' nm cross over the 6 - 4.5" HWDP. Tag cement at 275'. - Drill 7 7/8" hole from 275' to 940' 10,000 lbs WOB, 400 GPM, 160 GPM and 120.9 ft/hr AVG ROP -Rig up floor and hydromatic

Daily Cost: \$0

Cumulative Cost: \$92,705

GMBU G-18-9-17

Drill 7 7/8" hole with fresh water

Date: 7/16/2011

NDSI #3 at 3295. 2 Days Since Spud - Rig service. Function test BOP and crown-o-matic -Drill 7 7/8" hole from 940' to 2191' 20,000 lbs WOB, 400 GPM, 160 GPM and 109 ft/hr AVG ROP - Drill 7 7/8" hole from 2191' to 3295' 20,000 lbs WOB, 400 GPM, 160 GPM and 92 ft/hr

AVG ROP Daily Cost: \$0

Cumulative Cost: \$126,479

GMBU G-18-9-17

Drill 7 7/8" hole with fresh water

Date: 7/17/2011

NDSI #3 at 4682. 3 Days Since Spud - Drill 7 7/8" hole from 4070' to 4682' 20,000 lbs WOB, 400 GPM, 160 GPM and 51 ft/hr AVG ROP - Drill 7 7/8" hole from 3295' to 4070' 20,000 lbs WOB, 400 GPM, 160 GPM and 67 ft/hr AVG ROP - Rig Service. Function test BOP and crown-omatic

Daily Cost: \$0

Cumulative Cost: \$148,648

GMBU G-18-9-17

Drill 7 7/8" hole with fresh water

Date: 7/18/2011

NDSI #3 at 5848. 4 Days Since Spud - Rig Service. Function test BOP and crown-o-matic -Drill 7 7/8" hole from 4682' to 5280' 20,000 lbs WOB, 400 GPM, 160 GPM and 56 ft/hr AVG ROP - Drill 7 7/8" hole from 5280' to 5848' 20,000 lbs WOB, 400 GPM, 160 GPM and 52 ft/hr

AVG ROP Daily Cost: \$0

Cumulative Cost: \$257,274

GMBU G-18-9-17

Running casing

Date: 7/19/2011

NDSI #3 at 6147. 5 Days Since Spud - Run Halliburton logs loggers TD 6146 - Lay Down drill pipe - Lay down BHA - Drill 7 7/8" hole from 5848' to 6147' 20,000 lbs WOB, 400 GPM, 160 GPM and 56 ft/hr AVG ROP - Circulate Bottoms up - Lay down drill pipe to 4000FT - Kelly up

spot brine water Daily Cost: \$0

Cumulative Cost: \$285,193

GMBU G-18-9-17

Wait on Completion

Date: 7/20/2011

NDSI #3 at 6147. 6 Days Since Spud - Float collar set @ 6090.39' KB, pick up exta jt tag and lay down, P/U Mandrill and landing jt - JSA w/ on coming crew, run 140jt 5.5 15.5# j-55 LTC 1 mandrill and tag -Guide Shoe set @ 6137.12' KB - total csg on location 149 jts Plus 1 landing it- Transfer 6 its + 2 landing it - to GMB W-7-9-17 - Circulate csg - CMT w/BJ Pump 275 sks PL II +3% KCL +5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF mixed @ 11ppg - yield @ 3.54 Then tail of 400 sk 50:50:2+3%KCL+0.5%EC-1+.25# SK CF+.05#SF+.3SMS+FP-6L -Clean Mud tanks - Tear down - release rig @ 1900 7/19/11 - Mixed @ 14.4 ppg yeild @ 1.24 return 30 bbls to pit Bump plug to 2240 psi Finalized

Daily Cost: \$0

Cumulative Cost: \$339,836

Pertinent Files: Go to File List